No. 769.---Vol. XX.]

LONDON, SATURDAY, MAY 18, 1850.

PRICE 6D.

Greenwich Hospital-Sale of Leab Gre.

THE COMMISSIONERS OF GREENWICH HOSPITAL will BECEIVE TENDERS for the PURCHASE of THREE HUNDRED and EIGHTY BINGS of LEAD ORE, at the Low Byer Inn, ALSTON, up to One o'clock in the afternoon of Friday, the 31st day of May, 1853.

Samples of the ores will be forwarded to any parties wishing to purchase, who may not point agents to examine them, on application to Mr. Paull, Alston, Cumberland; and anditions of sale may be had on application to Mr. Grey, at the Greenwich Hospital Mice, Dilston, Newcastle-on-Tyno.

EXTENSIVE SALE OF IRON-WORK, BUILDINGS, AND MACHINERY.

EXTENSIVE SALE OF IRON-WORK, BUILDINGS, AND MACHINERY.

M. R. HILL will SELL, BY AUCTION, on Monday and Tuesday, the 20th and 21st days of May, 1850, all the BUILDINGS, ENGINES, BOILERS, WEIGHING MACHINES, WATEL REGULATOR, BLAST-PIPES, HOT-AIR APPARATUS, quantity of curved pipes for ditto, long lift of pump trees, working barrels, &c., railroads, cast-iron cylinders, stock of cast-iron cylinders, stock of cast-iron cylinders, stock of cast-iron cylinders, stock of cast-iron cylinders, dock of cast-iron suits, sleepers, floor-plates, pit-pulloys, carriages, and other useful castings, wrought-iron, smiths', colliers', &c., tools, pit frames, gins, dist-ropes, glu and capstain, ropes, coal wazgons, pyches, &c., at the PONKEY IRON-WORKS and COLLIERY, near RHUABON, Donbiguishire. The sale to commence each moraing at Eleven o'clock.

Mr. Leigit Williams will be in attendance at the Ponkey Iron-Works three days previous, to show the lots.

MONMOUTHSHIRE.—SALE OF A VALUABLE IRON FOUNDRY AND PREMISES.

M. H. M. PARTRIDGE is instructed to SELL, by PUBLIC
AUCTION, at the King's Head Inn, Newport, on Wednesday, the 22d day of May
next, at One for Two o'clock precisely, all that valuable PROPERTY known as the

MAES-Y-CWMWN IRON FOUNDRY,
Situate in the parish of MOUY-PHUS-LWYN, together with TWO good DWELLING-HOUSES and ENTRANCE LODGE.

The FOUNDRY is REPLETE with EVERY CONVENIENCE, and comprises stove sigine-house, a single power STEA-ENGINE, with gearing, &c., to work a blowing ian, boiler grate, bars, steam and water-pipes, cupola furnace, with connecting air-pipes from the fain.

from the fan.

A branch tramroad connects the foundry with the line of tramroad to Newport, Rhymney, Tredgar, &c., from whence iron, coal, and coke may be obtained; there is a fine spring of water on the promises, and a small rivuler running through them.

This property, which comprises two acres, is held under a lease for 90 years, from the 24th June, 1840, subject to an annual ground-rent of £11, and offers a most desirable investment to any person conversant with the business, which may, at a trifling expesse, be very considerably extended, and adapted to fitting-up and other purposes.

For further particulars apply to Mr. Edmund Beckingham, West of England Bank; or to Mr. H. M. Partridge, auctioneer, house and estate agent, Newport, Monmouthshire-St. Woollos House, Stow Hill, April 25, 1850.

TO BE SOLD, BY AUCTION, at Garraway's Coffee-house LONDON, on Wodnesday next, the 22d inst., at Three o'clock afternoon, about EIGHTY TONS WHITE, or BELL, METAL, of superior quality.—Samples may be seen or the bulk, which is in London, inspected, on application to Messrs. Cotton and True man, sworn brokers, Royal Exchange Buildings, London.

MINE AND MATERIALS FOR SALE.—TO BE SOLD,

MINE AND MATERIALS FOR SALE.—TO BE SOLD, BY PIBLIC AUCTION, on Treadny, the 28th inst., at Twelve colock in the foremoon, unless previously disposed of by private contract (of which due notice will be given), all that valuable MINE OF BUSCOMMLE, page ST. AUSTELL, CORNWALL: and also NINETY-EIGHT (122ths) PARTS of the WHEAL TRISHAM SELT, augustic to the fosceundie adversald on the north and cast. The Boscundie Mine is now in full operations, as a part of the Charlestown United Mines, and yields regular monthly returns of tin, with occasional bunches of rich grey copper ore —The settle of both mines are held under leases from Colonel Carlyon. The MATERIALS on the BOSCUNDLE MINE consist of a STEAM-ENGINE, of 32 inches cylinder, 9 feet stroke in the cylinder, and 7 feet at the shaft, with two boilers, of about 10 tons each; an excellent WATER-WHEEL, of 40 feet dameter, and 7 fe. brash, together with the PITWORK, of various sizes, in three engine-shafts; a DRAWING MACHINE WHEEL, 22 feet diameter, and 7 feet breast, with the gear and other work connected therewith, together with all the other MATERIALS and the BUILDINGS, &c., upon the said mine.

And on the following day, Wednesday, the 29th inst., at Twelve occock in the forenoon,

And on the following day, Wednesday, the 29th inst., at Twelve o'clock in the foreneon, the undermentioned SPARE MATERIALS, the property of the CHARLESTOWN MINES Adventurers, lying on the Boscundic Common, or Buckier's Mine, will be OFFERED FOR SALE, BY PUBLIC AUCTION—viz.:

EXTENSIVE AND UNRESERVED SALE OF MACHINERY AND RAILWAY PLANT, AT BERWICK-ON-TWEED.

MR. EMBLETON will SELL, BY PUBLIC AUCTION, without reserve, on Monday, the 3d day of June next, and the following days (sale to commence each day at Eleven A.M., and finish at Six F.M.), in the Yard adjoining the New Bridge, the whole STOCK of

ing the New Bridge, the whole STOCK of

MACHINERY AND RAILWAY PLANT,

which has been used in the erection of the Tweed Viaduct and adjoining contracts, consisting of—4 LOCOMOTIVE ENGINES, with tenders.

2 50-horse power HiGH-PRESSURE BEAM ENGINES.

1 6-horse power ditto POETABLE ENGINE.

1 22-horse power ditto, with sawing machinery.

1 3-horse power ditto.

Also, 1 of Nasmyth's PATENT PILE-DRIVING MACHINES, all of which are in excellent working order, and in many cases as good as new.

1 Brass FORCING PUMP; a large number of travelling cranes, jib cranes, crane chains, winches, setting poics.

3 Ram (ranges, with harmons for delving piles.

chains, winches, setting poles.

chains, winches, setting poles.

A large number of timber borgies, stone waggons, carts, hand and wheelbarrows.

A large number of timber borgies, stone waggons, carts, hand and wheelbarrows.

There will also be sold a large quantity of HORSE GEAR, and about 300 tons of RAIL.

WAY BARS, 35 and 45 lbs. per yar Cstalogues, with description of engines, may be seen at Mr. Carstair's office, Berwick or in the yard, on the day of sale.—Herwick, May 14, 1850.

or in the yard, on the day of sale.—Berwick, May 14, 1800.

POR SALE, BY TENDER—LOSTWITHIEL CONSOLS MINE.—At a General Mosting of the shareholders in the above Mine, held on the 2d inst., it was resolved, that in consequence of the mability of several shareholders to continue their interest in the mine, that the MINE and MATERIALS be advertised FOR SALE, BY TENDER, within three weeks from this time.

Tenders for the same are now solicited. The mine has been worked by the present company nearly four years, and was lately inspected by Mr. A. Murray, Jun., who reported to the adventurers, that to fully develope the mine, by which important results might be obtained, the levels on the east and west lode should be extended fully 30 to 40 fathoms, at a cost of £7 per fathom (average), and occupying 6 to 8 months. The engine is a 36-inch by 10-feet stroke, and a small additional outlay by pumps would put the mine in an efficient state of working.

Tenders to be addressed to Dated May 8, 1850.

No. 4, King-street, Cheapside, London.

Dated May 8, 1850.

No. 4, King-street, Cheapside, London.

VALUABLE MINING SETT AND MATERIALS FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, on or before Saturday, the 25th inst., a valuable MINING SETT. called WHEAL SUSAN, situate in the parish of LAMERTON, near TAVISTOCK, and in the neighbourhood of the great Wheal Friendship Mine, together with a considerable quantity of MATERIAL5 on the mine, a good counting-house, changing-house, smiths' shop, &c.

The set extends about 400 fathoms on the course of the lodes, and about 200 fathoms north and south. The lease was granted for 21 years, from March, 1846, at 1-15th dues. The workings commenced in the early part of 1845, a shaft smik about 25 fathoms, and two very promising lodes laid open, from one of which about 11 this of rich copper ore was raised. The operations were discontinued in the latter part of 1846, for reasons which will be explained by Mr. Thomas Weekes, of Ottery, near Tavistek, to whom all applications are to be made,—May 14, 1850.

TO CONTRACTORS, BUILDERS, AND OTHERS.

TO BE SOLD, BY PRIVATE CONTRACT, the ENGINES,
MACHINERY, &c., which have been used in the ejection of the Britannia-bridge,
consisting of ONE 40-horse HIGH-PRESSURE ENGINE, with 18-inch cylinder, and
3-feet 6-inch stroke, with boiler complete, drum and hoisting gear; ONE 25-horse HIGHPRESSURE ENGINE, with 14-inch cylinder, and 2-ft, stroke, with portable boiler complete, drum and hoisting gear; travelling cranes, landing cranes, setting machines, single
and double purchase crabs, blocks, chain and tackle of every description, and of first-rate
quality.—Application to be made to Messrs. B. J. Nowell and Co., at the works, Britannia-bridge, Bangor, North Wales.

EAST OF SCOTLAND MALLEABLE IRON COMPANY. —The Directors have been authorised to RECEIVE OFFERS for the PURCHASE, or LEASE, of the MALLEABLE IRON WORKS at DUNFERNLINE—comprising a STEAM—ENGINE, of 80-horse power, working the machinery, consisting of FORGE and 2 PUDDLE BAR TRAINS, of 16 inches diameter, MAMMER and PATENT SHING-LING MACHINE; also a 16-inch MERCHANT BAR or RAIL MILL, a 12-inch MILL, for ordinary sized merchant burs, and m s-inch GUIDE MILL, 13 PUDDLING FURNACES—the whole capable of producing 120 tons of bar-iron weekly.

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing apparatus, or

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing apparatus, complete, and two fires erected.

A complete SET of WORKSHOPS, contaming a 20-horse power STEAM-ENGINE, driving a powerful roll-turning lathe, and blowing apparatus for smithst fires.

A FUMFING and CLAZ MILL STEAM-ENGINE, of 16-horse power, used for the manufacture of fire-brick, and pumping water for supply of engines.

Also, in course of erection, a STEAM-ENGINE, of 80-horse power, intended to drive the mills apart from the forges, having strong cast-tron firming laid down, and machinery suitable on the premises, which could be brought into active operation in a short period' Together with the necessary TOOLS, LOOSE MACHINERY and STOCKS, of different kinds.

Offers will also be received for the PURCHASE of the ESTATE of TRANSY, consisting of about 107 imperial acres, with elegant MANSION-HOUSE and PLEASURE GROUNDS, situated about half a mile to the east of the town of Dunfermline.

Applications may be made to Mr. James luglis, Chairman of the Company; or to Johnstone, Russell, and Craig, writers, Dunfermline.

UNSTON IRON WORKS, NEAR SHEFFIELD. Mesers. RANGELEY, WRIGHT, and Co. invite the attention of IRON MANU-FACTURERS, IRON FOUNDERS, &c., to their DERBYSHIRE PIG-IRON (smelted entirely with coke), which they can with confidence recommend for all purposes where purity of metal, combined with tonacity or strength, is an object. Their No. 3 pig-from is aufficiently fluid for all descriptions of foundry-work. PIPING made from this quality will admit of almost any amount of hydraulic pressure. As a mixture with tender items, or for purposes requiring great strength, their No. 4 is particularly adapted. For POINCE PURPOSES, the loss from waste in cinder, &c., is much below the usual average, save the produce a very superior from.

Messrs. R., W., and Co. also beg to inform RAILWAY CONTRACTORS, ENGINEERS. GAS and WATER-WORKES COMPANIES, BUILDERS, MILLWRIGHTS, &c., that laving purchased su extensive assortment of models and apparatus from Messrs. Wm, Graham and Co., of Millou Iron-works (who have declined business), and having ongaged experienced work-men from that establishment, they are in a position to furnish ALL DESCRIPTIONS &c CASTINGS, suitable for the above tranches, and at moderate prices.

TO IRONMASTERS, ENGINEERS, AND OTHERS

CONDIE'S IMPROVED PATENT STEAM HAMMER. CONDIE'S IMPROVED PATENT STEAM HAMMER.—
The alleschere supplied in most respectfully to call the attention of Parlies interested to his Pateur supplied in the patents of the patents.

have made several of the nammers, they are harly converges and all the patent.

Any weight of hammer, from 1 ewt. to 5 tons, can be made—allke suitable for the smith's shop, the frommaster, or the jobbing forge.

For particulars apply to Messrs, John Dixon & Co., engineers, Paisley: or here to JOHN CONDIE, Govan Iron-Works, Glasgow.

N.B.—Parties interested are invited to call at Govan Iron-Works and see those machines, which are in operation day and night.

SURDLING: S. PATENT.

TOUGHENED CAST-IRON—STIRLING'S PATENT.

No. 1—For SMALL and MEDIUM CASTINGS.
No. 3—For HEAVY CASTINGS.
No. 3—For HEAVY CASTINGS.
The above is by far the strongest Cast-Iron made, and is now being extensively used where strong castings are required.

Further particulars may be obtained on application to

Messrs. GARDEN & MACANDREW,
27, Queen-street, Cheapside, from whom also the IRON can be PROCURED.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

po CETLON, MADRAS, CALCUTTA, FENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY
BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS
by their steamers—starting from Southampton on the 20th of overy month; and from
Sues on or about the 10th of the month.

BOMBAY.—Passengers for Bombay can proceed by this cempany's steamers of the 29th
of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Sues
by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA—On the 20th and 29th of every month. Constants open—On the 29th of the month. ALEXANDRIA—On the 20th of the month.

SPAIN AND PORTUGAL. - Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.

For plans of the vessels, rates of passage-money, and to secure passages and ship carge apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place Southempton.

SCHOOL OF MINERALOGY, CHEMISTRY, AND GENERAL SCIENCE.
MESSRS, NESBIT'S ACADEMY,

No. 38, KENNINGTON-LANE, LAMBETH, NEAR LONDON

In this SCHOOL, in addition to all the branches of a good education, EVERY FACI-LITY is AFFORDED for obtaining a knowledge of ANALYTICAL CHEMISTY and NATURAL SCIENCE, as applied to the Arts, Manufactures, and Agriculture. The pupils are practically taught in the Laboratories, which are fitted up with every essential for the most extensive ciremical investigations. Mr. Nebit's works on Land Surveying, Menauration, Gauging, Arithmetic, English Parsing, &c., may be had of all bosksellers.

Referentes.—Dr. D. B. Reid, F.R.S.E., &c., House of Commons, Westminster; R. Prosesr, Esq., U.S., Birmingham; J. L. Bullock, Esq., Editor of Freenius's Chemical Analysis Conduit-street, Regent-street; J. Bardner, Esq., M.D., Editor of Liebig's Letters, &c., Mortimer-street, Portland-place; and W. Shaw, Esq., Strand, London.

OYAL POLYTECHNIC INSTITUTION.—COURSE OF TWENTY LECTURES, of two hours each, on USEFUL PRACTICAL CHEMISTRY, under the direction of J.H. Pepper, Esq., adapted for Marmacturers, School-masters, and Students. The Course will be a Systematic Series on the Elementary Details and Manipulations of Chemistry, the Atomic Theory and Symbols, Preparation of Gases, Acids, Saline Bodies, Qualithive and Quantitative Analysis.

To commesce on the 27th lust.—Feo, including admission to the Institution during the Course, New Onlines.

Analyses of Soils and Avice to Farmers at very moderate charges.

THE SOUTH COAST OF ENGLAND.

This tay is published, price 6d.

THE MEANS OF PRESERVING LIFE AND PROPERTY, and of PROMOTING EUROPEAN TRADE, by the more general use of SOUTH-AMPTON and OTHER PORTS on the SOUTH COAST, and the more perfect adaptation of the RAILWAY SYSTEM OI ENGLAND to the PURPOSES OF COMMERCE, DEMONSTRATED.

London: Edingham Wilson, Royal Exchange.

THE MINING ALMANACK for 1850: compiled and arranged by HERRY ENGLISH, Miting Engineer, &c. Under the especial sanction and patronage of H.R.H. PRINCE ALLERT, Lord Warden of the Stannaries, Chief Steward of the Duchy of Corawall, Devon, &c.—THE SECOND VOLUME will appear early it JUNE NEXT, with ADDITIONAL TABLES and STATISTICS, connected with the Mining Interests.—Names of outsetsions are requested to be addressed to Mr. H. English,

WANTED, in a MANUFACTURING BUSINESS and IRON TRADE, A PARTNER, who can command from £6000 to £8000, and who may be actively engaged or otherwise. The business is well established, and in full operation, yielding good profits, and capable of considerable improvements.—Communications, addressed to "A. E.," 25, Basinghall-street, London, will have prompt attention. N.B.—None but principals will be treated with.

TO FURNACE MANAGERS.—WANTED, at an old established iron-works, a PERSON to TAKE CHARGE of THREE BLAST-FURNACES, who is theroughly acquainted with the adaptation of Cold and Hot Blast, and the regulation of the Heaters and Apparatus; also to SUPERINTEND the COKING and MINE BURNING, both in kilns and open. He must be able to write well, so as to keep the necessary accounts. A forgo and mill, capable of turning out a large make of finished iron per week, are connected with the furnaces, the whole being under a general manager. Apply by letter, in applicants' writing, to "T. J." Post-office, Wolverhampton, stating age, qualifications, references, and salary required.—May 16, 1850.

ONDON AND LIVERPOOL COMMISSION AND GENERAL AGENCY OFFICES.—Every description of COMMERCIAL BUSINESS CONDUCTED by Messers. BRADFIELD & CO., No. 19, STRAND, LONDON, and Mr. BIRD, ST. GEORG'S-BUILDINGS, BASNETT-STREET, LIVERPOOL.

Patentees, Inventors, and others desirous of giving publicity to New Works, will have their views vigorously worked out by parties acquainted with every detail and channel, netropolitan and provincial.—Agencies arranged, and correspondence, inquiries, collection of debts and rents, undertaken with energy and economy.

PRITISH AND FOREIGN REGISTRY OFFICE.—
PARTIES having MINERAL ESTATES, COLLIERIES, or MINES, FOR SALE,
or SHARES TO DISPOSE OF, in DIVIDEND MINES, OT OTHERS, by enclosing a
list of the number and price of such shares, and particulars of such property, the same
will be REGISTERED FOR SALE, and commission charged only on sales taking place.
Money advanced if required.—Apply to Mr. DURRANT, 58, Lombard-street, London.

CONSULTING SHAREBROKERS -" FACTS AND FIGURES."

MESSRS. R. B. WATSON & CO., lately of Leeds, and formerly of Hull, have resumed BUSINESS, as CONSULTING SHAREBROKERS, in LONDON. In the former place R. B. W. acted as a sharebroker for 10 years, and in the latter, as a commercial broker, for 10 years.

Having drawn up the last half-yearly accounts of the principal rallways, upon one unform plan, they propose offering to investors, but not to mere speculators, their opinion of railways, founded upon these facts and figures.

For terms, and a circular, apply at No. 39, Old Broad-street.

MR. JAMES CROFTS, of No. 4, KING-STREET, CHEAPSIDE, takes the liberty of soliciting the attention of CAPITALISTS (and more particularly so in consequence of the depressed and, in his opinion, still unaafe condition of railway property) to the MINING INTERESTS of GREAT BILITAIN, as offering, at this time, the SAFEST MEDIUM OF INVESTMENT of any adventures of an acknowledged speculative cluracter, and TENDERS his SERVICES generally for the PURCHASE or SALE of MINING SHARES.

WANTED TO PURCHASE -- WEST SETON.

Mr. CROFTS IS NOT A DEALER IN SHARES FOR his own account, but only for principals.

MINING PROPERTY.—Mr. HERRON has SHARES in the best DIVIDEND MINES FOR SALE, and which will give to the purchaser 17 to 25 per cent. for the outlay; amongst others are the following:—Trelawny, Mary Ann, Great Devon Consols, Bodford, South Tauar, Hollmbush, Tincroft, Herodskot, Levant, Alfred Cousols, South Tolgus, West Tolgus, East Builer, Stray Park—St. John del Rey. United Mexicau, and Cobre Mines,
Mining Offices, 33, Clement's-lane, Lombard-street.

MINING INVESTMENT.—Messrs. BOXALL & CO.,
No. 5, CROSBY HALL CHAMBERS, LONDON, are prepared to BUY and
SELL in the following MINES:—Hennock Silver-Lead, Penzance Consols, North Roskear,
Bryn-Arian, Wheal Langford, Devon Great Consols, South Flain Wood, Wheal Franco,
Wheal Sarah, wheal Golden, Heignston Down Consols, West Providence, Trelawny, Trethellan, Santiago, Lunares, Imperial Brazillian, and Guudalcania.
N.B.—MINES INSPECTED and confidential REPORTS SUPPLIED.

MR. TRIPP, MINE AGENT, transacts BUSINESS EX-CLUSIVELY FOR PRINCIPALS. He is instructed to BUY and SELL in most DIVIDEND-PAYING MINES; also in the NEW ONES, having present orospective advantages.

MINING OFFICES,
ST. MICHAEU'S CHAMBERS, ST. MICHAEU'S-ALLBY, CORNHILL, LONDON.

MR. T. A. READWIN, MINING OFFICES, winchester-buildings, old Broad-Street, London.

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND

AND MINING SURVEYOR.

No. 15, OLD BROAD-STREET, LONDON.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON. CAMBORNE CONSOLS MINING COMPANY.—Notice is hereby given, that a SPECIAL GENERAL MEETING of the absorbed as a special control of the absorbed as a special contr

AMBORNE CONSOLS MINING COMPANY—Notice is hereby given, that a SPECIAL GENERAL MEETING of the shareholders of this Company will be HELD at the Company's offices, 22, New Bridge-street, Blackfriars, London, on Thursday, the 23d day of May Inst.. at One of the clock in the afternoon precisely, for the purpose of sanctioning and confirming the contract agreement: and arrangement entered into by the Directors for obtaining the mutuate agreement and surfaingenest entered into by the Directors for obtaining the Leases of the Lands and Mines which have been taken for the use of the Company, and for obtaining from the proprietors or other precase interested in a certain shaft, called "Martin's Shaft," situate in Dolcoatin Mines, adjoining to the south-eastern boundary of the lands and mines Iessed to this Company, called the "Camborne Consols Mines Sett," for obtaining the right or privilege of using, either wholly or in part, the said shaft, called Martin's Shaft, for communicating with the several levels of the Camborne Consols Mines sett, or otherwise for the use of this company; and for confirming and ratifying all such payments as have influincating with the serious read of confirming and ratifying all such payments as have been made under and by virtue of such contract: and also for adopting such resolutions, and giving such directions as may be deemed necessary or expedient for effecting the purposes aforesaid, or in relation thereto.—Dated this 29th day of April, 1850.

By order of the Board of Directors,

H. L. T. VON USTER, Secretary to the Company.

EAST OF SCOTLAND MALLEABLE IRON COMPANY. Notice is hereby given, that a SPECIAL GENERAL MEETING of the shareholders of the EAST OF SCOTLAND MALLEABLE IRON COMPANY will be HELD
within the Town House of Dunfermline upon Thursday, the 23d day of August next, 1850,
at Twelve o'clock noon, for the purpose of considering a proposal to DisSOLVE the said
COMPANY, and to SELL and realise the whole PROPERTY and ESTATE, and FUNDS
and EFFECTS of the Company, and finally to wind-up the Company's affairs—all in
terms of the 37th clause of the Contract of Copartnery of the said Company.

By order of the Directors,

JAMES INGLIS, Chairman.

Dunfermline, Feb. 6, 1850.

JOHN DRYSDALE, Interim Secretary.

CREAT MICHELL CONSOLS.—Notice is hereby given, that PARTIES who have any DEMANDS AGAINST the ABOVE MINE are requested to SEAD the PARTICULARS of the same to ME, on or before the 31st instant, and unless such claims are received by that date, the parties will be excluded from the benefit of the final division of assets about to be made.

By order of the Committee of Management,
50, Threadneedle-street, London, May 11, 1850.

G. KIECKHOEFER, Sec.

UADALCANAL SILVER MINING ASSOCIATION.—
Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of shareholders will be HELD on Wednesday, the 19th May inst., at Two o'clock precisely, at the offices of the Association.

By order,

H. T. RYDE, Secretary.

34, Broad-street-buildings, London, May 9, 1850.

LITERARY NOTICES.

A Catcohim of the Sham-Engine, illustration of the Scientific Principle upon-which its Operation depends, and the Prestical Details of its Sheechare, in its Application to Mines, Mills, Shus Norrigation, and Railenge, with carbina Suggestions of Improcesses. Psy Joine Borning, C.E. (third edition). London. Longman, Brown, Green, and Longmans.

In the Mining Journal of 18th Jan., 1849, we took a brief review of a work on the Sham-Engine, by Mr. Bourne, published by the Artizan Club, which, from the variety of the matter contained, the fullness of details, and the correctness of the general principle hald down, has been highly appreciated in the scientific world. We have now again before as the knowledge and experience of the same talented author, placed in an entirely elementary form, arranged as a catechism in questions and answers; which, while sailed to the capacity of the student of older growth, and will prove a valuable companion to the form of the student of older growth, and will prove a valuable companion to the form of the student of older growth, and will prove a valuable companion to the form of the student of older growth, and will prove a valuable companion to the form of the student of older growth, and will prove a valuable companion to the control of the student of older growth, and will prove the companion of crime of grinders. As a general specimen of the volume, we give the following extract of the process for fluiding into cylinders, and sand ground to control the matils in poured to built up, which is plastered on the mails of the cylinder in the preparation of symmetric providers. The student of the cylinder is to be swept, is stated the said and upright into the rat it the distance of the radius of the cylinder, and a cylinderic about the cylinder is the said and the core equal to the thickness of the cylinder, and into this space the meltal built is poured. The general ambitton in making cylinders is to make them sound and hard, but it is over the control of the cylind

The Book of North Wales; Scenery, Antiquities, Highways and Byeways, Lakes, Streams, and Rivers. By CHARLES FREDERICK CLIFFE, author of The Book of South Wales. With a Map and Illustrations. London; Longman, Brown, Green, and Longmans.

of South Wales. With a Map and Illustrations. London: Longman, Brown, Green, and Longmans.

The great opening up of the romantic mountain and valley scenery of Wales, the sylvan retreats, awful precipices, gloomy haunts of superstition, and glassy lakes, which has taken place within the last 20 years, principally by the establishment of the railway system, renders a good handbook for the tourist of considerable interest. Such an one is now before us; and it is fully entitled to as favourable a reception as the author's work on South Wales, to which it will prove a most suitable companion. Great changes have taken place of last years in the numbers of tourists who have penetrated into the principality—a country deeply fraught with interest to the traveller, the antiquarian, and the geologist; many new lights have been thrown on its history and antiquities; and the author has, in this volume, successfully attempted to embody, as far as possible, the marrow of recent investigations. With a love of angling, antiquity, and scenery, he has been led into wild districts, known to few, while the surface of the country, its road scenes, public houses, and great public works, are elaborately described. Two-thirds of the volume have been devoted to Caernaryonshire and Meriomethshire, as offering the highest attractions, and being most visited by travellers. There is a glossary of the most usual Welsh terms, by which a traveller may manage to get the necessaries of life in the wildest districts; the pronunciation of the Welsh alphabet; an excellently engraved and coloured map, with 13 illustrations. In fact, it is a little work which no tourist in the northern counties of the principality should be without; while it will be found both amusing and instructive to the fireside reader. As a specimen of style, we give a few extracts. In the description of Llyn Idwal, one of the most desolate and solemn spots in Wales, the author remarks—

It is situated at the bottom of a supendous earn of Glyder Vawr, at the point where the val

of the most desolate and solemn spots in Wales, the author remarks—
It is situated at the bottom of a stupendous cars of Glyder Yewr, at the point where he valley of Llyn Ogwen makes with that of Nant Francon—a great bend, or knee; sence the wind, driving up the latter from the sea-coast, meets an inland current in the sea, and produces violent eddies, which sometimes tear up the waters of the lake in considerable waves. The stream that carries off their overflowings approaches Llyn Ogwen the narrow outlet of Bengleg. A fitter haunt for superstition mind cannot conceive. Llyn Idwal (says Pennant) is infamous for the murder of a young prince of that name, on of Owen Gwynedd, by Denawi, one of the fifteen tribes of North Wales, to whom wen had entrasted the youth, to be fostered, according to the custom of the country. It was a fit place to inspire murderous thoughts, environed by horrible precipices. The bepterds fable that it is the haunt of demons, and that no bird dare fly over its doomed vaters, fatal as that of Avernus." A recent tourist has repeated this bird story as a reality, and added that no fish can live in the waters of Llyn Idwal; but we are compelled of depel the legend, for small fish, which are, however, very uncertain and shy, abound it. At this spot you have the sublime without the beautiful—severity, desolation, coldens, gloom. The nearly enclosing sides of the mountain tower precipitously above the date, exhibiting vast lines of fissure, caused by their slaty nature, and many deep-worn hastes, where torrents dash downward. High up on the western side is the great Twill, and other the sublem dash downward. High up on the western side is the great Twill, and selection and many deep-worn hastes, where torrents dash downward. High up on the western side is the great will be a few first the centre of a great back precipies, extending in length should 100, and only as wide, perpendicularly open Du, or Levil's Kitchen—a horrible gap in the centre of a great black precipies, extending in length about 150 yards, in depth about 100, and only aix wide, perpendicularly open to the face of the mountain. The ascent to this, especially it the stones be slippery in well weather, is very fatiguing; but the scenery amply repays the labour. You clamber up an immense slide of broken rocks on the shelving mountain side, which seem as if they had been poured like water out of the clasm, and have been aptly termed a river of stones. Similar beaps have been formed by the storms of ages, beneath all the fissures, and encreased upon the narrow shore. If there be much water in the stream that flows out of Twil Du, the difficulty of untering is, of course, greatly increased; even in dry weather the feat requires nerve. Several very rare plants grow in the wet, black, rocky sides of this fissure, and up the "chinney" at its upper end, from which you can see the light above. Ardent botanists sometimes peril their lives here. The view on emerging from the chasm, just within the entrance, is marvellously fine."

In describing Tremadoc, we are taken to some ancient iron-works; the author says—

An excursion may be made, on the old Caernaryon road, from Tremadoc to Dolben-maen, where was a round tower like that at Dolbadarn, now demolished. There is a vast accumulation of scories within a few miles of Litth-faen, above Dolbenmaen. The sur-rounding district is called Getellan, or the Smithhes, and presents extraordinary evidences of the remains of fron smelting-works, of a magnitude for which history affords no assign-able date, whether it be Ceitic, Phoniclan, or Roman. About two miles south-west of Dolbenmaen are three Cromlechs."

In the introduction to Merionethshire it is stated-

The prevailing geological character of the Merionethshire mountains is nearly the same as that of the Snowdonian group; the greater part of the county is occupied with slate rocks; and in the north-east a blueish-gray limestone, much used for manure, prevails. The minerals chiefly consist of copper and lead, but silver and gold are also found in small quantities near Dolgelly. An excellent sketch of the geology of the county was given by Mr. Joseph Holdsworth, in 1849, in the Mining Journal, from which we shall quote in our litherary."

We can only conclude this notice by again saying that it is a highly inte-

resting volume, in which all the best router are carefully laid down, all the principal angling streams and lakes described, with instructions to anglers, and contains every necessary information for the tourist.

Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK.		
Tais Day Westminster Medical-17, Sarille-row	8 P.W	
Monnay Statistical-12, St. James's smare	3 F.M	6.
Chamical-142, Strand	8 PM	t.
Pathological-21, Regent-street, Waterloo-place	8 P.M	4.
Medical 3, Bolt-court, Fleet-street		
TUESDAY Civil Engineers 25, Great George-street		
Pharmacentical-17, Bloomsbary-square		
WEDNESDAY Society of Arts-Adelphi		
Geological-Somerset House		
Royal Botanic-Inner Circle, Regent's Park		
THURSDAY Royal Society of Literature-4, St. Martin's-place		
Numismatie—41, Tavistock-street, Covent-garden		
FAIDAY Royal Institution - Albermarie street		
Philological—London Library, 12, St. James's square	78 8 P.M	l.

PROFESSOR ANSTED'S LECTURES ON PRACTICAL GEOLOGY.

The third of this interesting course was delivered at the Royal Institution, on the 2d inst, in the presence of a very distingué assembly, including several of our most eminent sevens.

on the 2d inst, in the presence of a very distingué assembly, including several of our most eminent saucars.

The lecture related chiefly to the presence of water in rocks of different kinds, considered absolutely and relatively, whether it was accumulated upon the face of ippermeable beds, or filled subterranean fissures, or reservoirs, or whether it ran over the surface, and only partially saturated its channel. Water was one of the most powerful of mechanical agents, gelogically considered, and by far the largest group of phenomen might be traced to its action. It fell from the clouds in the shape of rain, and its obedience to the law of gravitation, and to other laws which governed liquids, produced many of those wonderful changes which geologists knew to have passed over the materials of which the earth's crust was made up. If it fell upon a permeable rock it was absorbed, and, by capillary attraction, gradually sunk deeper and deeper, until it came to some bed which prevented its passing further; and it would then extend laterally, if the bed in which it was would absorb no more. The learned professor then described the circumstances under which springs exist—whether natural springs, land springs, fault springs, springs at a hill side, intermittent springs, or universal and thermal springs, Having given many interesting details on these points, the learned professor then passed to the subject of borings for wells, whether Artesian or otherwise, and then proceeded to discuss the quantities of water available in certain rocks for the supply of large towns. Of these the most productive was, probably, the new red sandatone, when in certain localities; but the capabilities of supply which this bed furnished must also be considered in relation to the demand for that useful and indispensable element. An instance of this was found at Liverpool, which, although situated immediately on an extensive bed of new red sandatone, could not obtain from that source anything like a sufficiency of water for her numerous and that source anything like a sufficiency of water for her numerous and increasing population. A scheme had there been long under consideration to collect the surface water of a very considerable district in reservoirs, and convey it to the town, a distance of 24 miles; and here the skill and research of the goologist was indispensable. The Rivington Pike district presented a hilly surface of 17 square miles, upon which, it was calculated, 20,000,000 galloss of water fell per diem; but it required a geological knowledge to decide whether the earth's crust in that district was formed of such materials as would enable the fluid to be gathered. If the water fell upon sand, it would be shorbed; if there were many hollows it would lie in them, and be evaporated; but a closs examination showed that the whole district being composed of milistone grit, partly covered with the shaley beds belonging to the coal measure, very little of the water would be lost by penetration. It turned out that the whole of the water which fell on the district might readily be collected into two natural reservoirs, which existed on the side nearest Liverpool. After giving some further details of this gigantic scheme (with which the readers of the Mining Journal are, doubtless, familiar), the professor concluded by an aliusion to a somewhat similar scheme for the supply of London, which had been projected, the whole success of which, if attempted, would depend upon the accuracy of the geological observations and researches made in respect to the districts from which it was hoped to derive the surface water.

On Thursday, the 9th inst., the lecture related entirely to the nature of materials used for constructions, considered in reference to two points—their natural condition, and their capability of economical application; and these consisted entirely of earths and stones, obtained by open workings or quarries. The value of materials of this description depended frequently upon local conditions, which had no reference to the material itself.

spoet, while at mother they were of immenus value. Bate was a remarkable intance of this kind. A shate quarry an the sea shore was a property of immenus value; but alate in the solidior of mountain district was literally of any more contained to the control of city, link, and analstones. Clay was a material ased indirectly, as in the few property of the property o

out as possible what size had oone, and now set and done it. The monuments of Nature were seen in her mountain peaks, which retained their bold outline, despite the storms of winter and the heats of summer. It was not that they need remain for ever they would appear to be the same. Her signs, too, were seen in the bold cliffs which in so many forms of beauty jutted out from the rockbound coast, and seemed to defy the ocean, and not less in the low outline of hills which gave such a peculiar picturesque exsemble to our landscapes. Viewing all these marks, the eye of the geslogist determined unerringly the oxact localities where the mineral treasures of the earth might be best sought for and obtained, where her most enduring materials might be best quarried, and brought away for future use at some far distant spot. There was always a relation between the beautiful in Nature, and the valuable and the useful; her magic chisel fashioned the rock, and shaped the mountain into forms far more beautiful than ever graced the sculptor's marble; and her works had only to be understood to demonstrate not only their beauty, their interest, their wonders, but their essential usefulness. (Cheers.)

GEOLOGICAL SOCIETY.

MAY 5.—Sir CHARLES LYELL (Fresident) in the chair.

Lord Alfred Churchill was elected a fellow. The following communications

were read:—
1. A Sketch of the Geology of Spain, by Don J. Ezquerra del Bayo. The author of the paper stated that the western portion of Spain is principally occupied by crystallise or gaeissoid rocks. The copper deposits of Rio-Tinto, and the argentifespus veins in the province of Guadalaxara, occur in the gneiss. The lead and copper mines of the district of Linares, the tin mines of Monterey, in Gallicia, those near Zamora, and the lead and antimony mines

of Losacio, occur in the granitic rocks. The Transition formation of Spain is rich in metalliferous deposits. The Silurian rocks in the Sierra Morens have a remarkable deposit of clanshar. The Devonian rocks of the Asturias abound with coal of a good quality. The Carboniferous system occurs in the basin of the Guadiato, south of the Sierra Morens. A rich deposit of calamine is found in the Zechstein of the Tierra d'Alearas. The Jurassic formation is of considerable extent in the north of Spain, and abounds in metalliferous depocits, including silver, copper, lead, antimony, &c., generally scattered in small isolated masses, and seldom in veins. The Jurassic rocks have frequently been much altered by volcanic eruptions; and many thermal springs rise up both in these and in the oretaceous rocks. The Cretaceous formation occupies the southern slope of the Pyrenees, stretching also southward by Segovia to the Sierra del Guadarrama. Beds of coal, not of great importance, but applicable to all kinds of industrial purposes, occur in the cretaceous beds, near Reynoza and Burgos, and un the province of Soria. The saliferous deposits, peculiar to the cretaceous formation of Spain, were also noticed by the author. The tertiary formations, both marms and fresh water, are widely spread in Spain, and were stated to be of considerable interest, especially the great lacustrine formations of central Spain. After noticing the extensive plateaux, both of the secondary and of the tertiary formations, that have been raised to very considerable elevations without any disturbance of their horizontality, the author concluded with some remarks on the frequent disturbance of the strata throughout all geological epochs, and on the occurrence of carthquakes in the south of Spain in comparatively modern times.

2. On Pachyrisma: a new Fossil Genus of Conchifera Lamellibranchiata, by Messrs Morris and Lycett. This moliuse occurs in the great colite formation at Minchinhampton, and is remarkable for the genural massiveness of its shell, and

to represent in the Jurassic period, and might with it constitute a family, Magalodonida.

3. Observations on Dudley Trilobites, Part 2, by T. W. Fletcher, Esq. The author described two species of trilobites, referable to the genus Cybele, C. punctata, Fletcher, and C. variolaris, Al. Brongn., which occur, though seldom in a perfect state, at Dudley.

4. On some New Forms of Fossil Plants from the Lower, Lias, by J. Buckman, Esq. In this paper were described some fragmentary specimens of fossil plants or the families Pinacea, Haloragea, Umbellifera, and Ericacea, found in the band of liassic limestone, which is known as the insect-limestone of Gloucestershire, &c. Both these newly-discovered plants, and those which have been already found in the insect-limestone—viz., Conferca, Musci, Equisciacea, Filices, and Naiadacea—have similar climatal characters with the lias insects, on which Mr. Westwood has remarked that "they resemble forms of ordinary occurrence, and of a temperate climate, more like North America than Europe." But whether the beds with which the insect limestone is associated, rich in saurians, ammonites, molluscs, and echinoderms, were deposited under a temperate climate, or whether the plants and insects were drifted by a river from a great distance, remains unproved; the latter hypothesis is considered by the author of the paper to be the most probable.

Papers to be read on the 22d inst.:—1. On the Stratified Formations of the Venetian Alps, by Count Achille de Zigno.—2. On the Limestone of Nash, near Presteign, South Wales, by J. E. Davis, Esq.—3. On a Gup in the Greywacke Formation of the Eastern Lammermuirs, filled with Old Red Sandstone Conglomerate, by W. Stevenson, Esq.

INSTITUTION OF CIVIL ENGINEERS.

INSTITUTION OF CIVIL ENGINEERS. MAY 14.-WILLIAM CUBITT, Esq. (President), in the Chair.

The paper read was "On the Construction of the Permanent Way of Railways; with an Account of the Wrought-Iron Permanent Way, laid down on the Main Line of the North Midland Railway," by Mr. W. H. Barlow, M. Inst. C.E.

The paper read was "On the Construction of the Permanent Way, leid down on the Main Line of the North Midland Railways," by Mr. W. H. Barlow, M. Inst. C.E.

The author commenced by entering into the question of the maintenance and renewal of the ordinary railways, analysing very minutely the expenses under the different heads, and showing to what causes the derangement of the line might be attributed. The cost of maintenance was stated to be dependant on two causes—the effect of weather, &c., and the disturbance produced by traffic; and from a summary of the expenditure of the different lines belonging to the Midland Company, it appeared that the former amounted to 20. or 302, per mile per annum, and the latter varied from 2d. to 27d per train per mile. After a line was consolidated, by far the greater part of this expenditure was due to the derangement caused by the passage of the trains, which first produced an unevern joint, then loosened the joint key, and then disturbed the aleeper, so that at length the whole of the permanent way generally was degraded. With regard to renewal, it had been estimated by the officers of the London and North Western Railway, that on their line the rails would last 20 years, and the sleepers, or the sleepers on the wear, of the supervised way to years, and the sleepers, or the sleepers on the wear, of the quite evident that on lines having less traffic than the sleepers on the wear, or quite evident that on lines having less traffic than the sleepers on the wear, or quite evident that on lines having less traffic than the sleepers on the wear, or quite evident that on lines having to seek a remedy for this, the author conceived that, by increasing the dimensions of the bridge rail, sufficient width might be obtained for it to take its own bearing in the ballast, without the use of either transvers elecpers or longitudinal supports; and, moreover, that such a construction would possess great strength, be very durable, and be capable of being renewed at a moderate expense. He th

SOCIETY OF ARTS. MAY 15 .- ROBERT STEPHENSON, Esq., C.E. (vice-president), in the chair.

MAY 15.—ROBERT STEPHENSON, Esq., C.E. (vice-president), in the chair.

A paper by Mr. C. W. Siemens (of Birmingham) was read; it was illustrated by several models and drawings, on a steam-engine condenser invented by him, to which he has given the name of "Regenerative," from its novel and highly useful faculty of restoring to the boiler the products of condensation at boiling temperature, and still maintaining an efficient vacuum within the working cylinder. The paper commenced with a brief description of the condensers employed by Newcomen and Watt, and ulso of Hall's surface-condensers, which last, though exceedingly ingenious in point of construction, have been found almost useless in practice, from the small interstices between the plates becoming clogged with condensed tallow. Mr. Siemens's condenser was exhibited on the table, and the principle and details of the operation explained by means of several diagrams. The steam passes out of the cylinder between these plates, which have been previously cooled by an injection of cold water, and thus the condensation proceeds. The plates are 1-16th of an inch apart, and the apparatus has the advantages of compactness and superior efficiency over other condensers applicable to the same purposes.

[Some details respecting this paper will be found in another column.]

Mr. ROBERT STEPHENSON, in making a few observations on the apparatus,

Some details respecting this paper will be found in another column.]

Mr. Robert Stephenson, in making a few observations on the apparatus, said that Mr. Siemens (who is a German) had distinguished himself in this country by the invention of a chronometric governor for steam-engines, the principle of which was the simple conical pendulum; and is action was so extremely exact, that the Astronomer Royal had recommended its application to equatorial instruments, as being, in his opinion, the adjustment which approached the nearest to their delicate movements. The condenser of Mr. Sie-

mens had been brought to his notice on a former occasion, and he had formed the highest idea of its general utility, and of its successful application, at least, to stationary high-pressure engines. In the case of marine engines also, its adoption might be attended with considerable advantage, but he doubted its effects when applied to the locomotive engine. In a locomotive engine drawing an express train, the condensers would have to be filled and empited for times in the space of a second—a work which he thought them incapable of performing. It would be necessary, too, he believed, to have a larger surface of metal to condense the vapour than had previously been used to vapourise the water it was produced from. These observations applied only to locomotive engines, and he fully recognised the utility of Mr. Siemene's invention when applied to stationary, and, perhaps, also to marine, engines.

The thanks of the society were voted to Mr. Siemens for his communication.

HISTORY AND MANUFACTURE OF GUNPOWDER.-No. V. BY JOHN JOSEPH LAKE, OF THE ORDNANCE DEPARTMENT

The gunpowder employed for blasting rocks, and other mining pur poses, is much inferior in strength to Government and good sporting pow-der, and it is considered that it is better for the purpose, as the disruption is not so violent, and it possesses the property of giving what miners call a heave. Being cheaper is, no doubt, an influential part of the matter; but it is questionable whether pressure—the theoretic force developed by the use of inferior powder—is better for breaking up rocks than a sudden blow

use of inferior powder—is better for breaking up rocks than a sudden blow or shock. But even if it were, the slower combustion required for the purpose can be produced by employing good large-grained powder, by which it would, without doubt, be found that a saving would be effected during the year in works where there is a large expenditure of this article.

During the first French revolution, the Government, eager to have everything new, adopted even a novelty in gunpowder—the spherical or round-grained kind of M. Champy. Experiments were made at Fére in the fourth year of the Republic, under the direction of General Abonville, and at Vicennes, in the sixth year, under General Duterbie, to ascertain the comparative strength and fitness for service of the common irregular-grained and the round powder. The result at the first trial was always in favour of the latter with cannon, mortars, epronvettes, and small arms; but at the later trials variable and nearly equal. The round-grained powder, when employed in small arms, has the disadvantage of not inflaming readily in the pan. It is probable that it would be still more unsuitable now percussion locks are generally adopted.

readily in the pan. It is probable that it would be still more unsuitable now percussion locks are generally adopted.

It has been already observed, that a solid grain is not absolutely necessary in gunpowder to produce explosive effects, and advantage has been taken of this peculiarity in emergencies during active service in the field. The following method has been adopted by the French, when they have not been able to get proper gunpowder, but have succeeded in securing the necessary ingredients. These were pulverised, and mixed in proper proportions in a barrel, a little moisture being added to give the mixture some degree of consistency, and the barrel being shaken for a considerable time, a rough kind of powder was produced, which was found to answer tolerably well.

a rough kind of powder was produced, which was round to answer to arrably well.

The manner in which our ancestors manufactured gunpowder, on its first introduction into Europe, was curious. They prepared charcoal of remarkable fineness from the softest woods, with which they even sometimes mixed the ashes of linen rags and straw. The latter, however, is very objectionable, on account of having much silicious matter in its composition. They reduced their sulphur by sublimation. Having thus prepared these two ingredients, the saltpetre was dissolved in water, and the sulphur and saltpetre added, the mixture being kept constantly stirred the more completely to mix the ingredients. They also added the most singular things to the composition, as wine, brandy, vinegar, and the like, under the notion of giving strength to the powder. The mixture being allowed to dry, was granalated much in the same way as at present; but without having been previously submitted to pressure.

been previously submitted to pressure.

The ingredients for gunpowder are mixed in various proportions in different countries and by different manufacturers. The following is given in the Aide Memoire to the Military Sciences, as the atomic composition that approaches nearest to that of gunpowder—viz.: 1 equivalent of nitre, 1 of sulphur, and 3 of carbon; or,

Saltipotes 74-6
Sulphur 11-9
Charcoal 13-5-100-0.
Theoretical proportions, com the Journal of the Royal Institution, vol. i.,

Table showing the composition of several French gunpowder

	Ancient.	15		Rou		sph	erical	,00	S	porti	ng.
in the control of the	Resumed 18th August, 1808.	For Mines.		Ancient d'Escuse.	of M. Champy, by order of the Committee of Public Safety.				au Pilons.	d'Angu-	d' Esquer-
Saltpetro	75 12·5 12·5 his is also	63 18 20	65 15 20	74 16 10	A. 76 15 9	7	\$0 15 5	62 20 18	78 12 10	80 14 10	76 14 10

	8			Brit	tisti.		16.5		-				
	United States	Austria.	Govern.	Dartford.	Hounslow.	Tonbridge.	Chinese.	Italy.	Poland.	Portugal.	Russia.	Spain.	Sweden.
Saltpetre Charcoal Sulphur	75 12·5 12·5	76 11 12	75 15 10	75 17 8	78 14 8	76 14-5 9-5	75 14·4 11·77	76·5 12·5 12·5	80 12 8	78 14 11	70 73·78 18·5 13·59 11·5 12·63		75 16 9

The above tables present a remarkable feature in the near approach of the Chinese to the theoretical and atomic proportions, and their close re-semblance to our Government proportions.

Sir John Burgoyne gives the following results of the analysis of 11 sam ples of merchants' blasting powder:— RESULTS OF ANALYSIS PER CENT RESULTS OF ANALYSIS PER CENT.

NO. 01	Nitre.	Sulph. & Char.	Loss.
Samples,	ars.	me.	
17 Said to be of same manufacturers, but procured	5 72.5		
25 from different dealers	£ 66.	32.5	1.5
3	66.	32'	2.
Two qualities, said to be from same manufac-	C 66.2		
turers, but procured from different dealers	₹ 75.	24'	1.
0.3	C 19.9	25.5	1
Two qualities, same manufacturers	5 73.5	24.5	2.
83 - no quanties, same mandinetarers	S 66.	32	2.
97	C 73.	25.5	. 1.5
10 Three qualities, same manufacturers	₹ 73.	25.5	1.5
113	C 73.	25	2.
Good Government powder	75.	25	
The mound of the above table since on the		1	

The perusal of the above table gives an idea of the inferiority of that sold for blasting and mining purposes, a due proportion of nitre being necessary to make a good powder. The French mining powders are very deficient in saltpetre.

deficient in saltpetre.

A spherical grain of gunpowder, when fired, spreads its flame all round to a distance of eight diameters; consequently, the diameter of the inflamed globe is equal to 16 times that of the grain; from which it is calculated that the powder, when reduced by inflammation to the state of gas. occupies a space nearly 4000 times greater than when in the state of gr

An Ancient Wooden Bridge.—At the last monthly meeting of the Chester Archeological Society, the Rev. Mr. Massic, rector of St. Mary's, gave an interesting and gratifying lecture on an ancient wooden bridge, which has been found buried in the silt, 17 ft. deep, on the course of the River Birkett, near Wallassy Pool, Birkenhaad. Yarious diagrams were exhibited, and a large log of the timber of the bridge was placed in the room, which was examined with much interest. In the course of a clever series of historical deductions, Mr. Massic arrived at the inference that the bridge in question was a Roman structure, to facilitate the marshing of armies across the marsh.

COMPLAINTS OF THE STOMACH, INDIGESTION, AND SICK HEADACHES CURED BY HOLLOWAY'S PILLS.—This extriordinary medicine will effect cures after every other remody has been tried in vain, "Fersons suffering in any way from general debility, sick headaches, bile, stomach or liver evapilaints, may rest assured that a course of these pills will effect a radical cure, however lead their cases may be, as it is confidently asserted that this medicine acts so directly upon the vary mainsprings of life, that no disease, however severe, can resist its influence; every one, therefore, who is subject to any of the above mentioned disorders, should have recourse to Holloway's Pills.—Sold by all druggists, and at Professor Holloway's stabilishment, 244, Strand, London.

CREBOR COPPER MINE.

An influential company having just been formed for working the lodes in this valuable and ones-celebrated mineral property, it may be interesting to give some account of the past operations, and of the future prespects of the present adventurers. At a mesting hald at Tavistock, on the 16th day of March, 180%, visitock to Morwelham, Quay, by a canal," among other revolutions, it was resolved—"That the Duke of Belford be requested to make a grant of a mining sett, for working all lodes discovered in the course of the canal, embankment, tunnel, and collateral branch, that the proprietors of the canal, sembankment, tunnel, and collateral branch, that the proprietors of the canal, sembankment, tunnel, and collateral branch, that it was made to the course of the canal, sembankment, tunnel, and collateral branch, that it was made to the course of the canal, sembankment, tunnel, and collateral branch, that it was made to the proprietors, that it was a for the produce to his tirace, and to have the said set for a term of 42 years." This great, and an Act of Parlisament for making the canal, having been obtained, the works were commenced the same year, and in August it was reported to the proprietors, that it was "discovered to the proprietors, that it was considered to the proprietors, that it was considered to the proprietors, that it was considered to the proprietor, that it was considered to the proprietors, that it was considered to the proprietors, and it was proved to the proprietors, and the proprietors, and the proprietors, and the proprietors, and the proprietors and the

£19,396 6 3

£19,396 6 3

Of the above profit nearly one-half was advanced to the account of the canal, in conjunction with which the mine was worked. A dividend of 15L per share, amounting to 5250L was paid, leaving a balance in hand of 1207L 11s. 10d. The whole amount of costs to this date at Wheal Crebor was 33,449L 1s. 3d., and the net returns, \$2,098L 16s. 4d., so that the whole amount expended was returned, with the exception of 1350L 5s. 4d. About this time some rich ore was raised from the Georgina lode, which had previously presented very promising appearances. A new lode, with flattering indications, was cut near the surface near Lumborne; and the Wheal Crebor lode, which had been traced considerably further west, presented indications such as to justify very favourable expectations.

able expectations.

In the year ending November, 1814, a profit of 7000L was divided, and rich discoveries of ore continued to be made. During the year, 3647½ tons of copper ore were sold, producing 22,846L, or about 6L. 5s. per ton, although with a very low standard during the greater part of the time, but which yielded a profit of 802L 9s. 4d.; two dividends were paid, one of 16L per share, and another of 30L per share.

It is unnecessary to follow the annual reports further; but we may state that we have been well informed that this wonderful lode was in some parts. 18 to 24 ft. wide of solid yellow ore—produced, no doubt, by the two cross-courses, which intersect that and the parallel lodes at a very short distance from each other. The following table will give a pretty correct account of the sales and returns of the original company:—

and	returi	18 01 1	eme	ori	WH		•		R RET	URNS.							
Fear		Coppe	er O	res		Am	Amount.				Profit.				Loss.		
1805	****		-			11-1	-		*****		-		*****	£ 294	11	0	
1806	Tons	20	3	1	*****	£110	17	0	*****	11.	-			1108			
1807		- 11	7	2		73	15	7	*****		-			1028	. 3	. 6	
1808	****	24	3	0	*****	116	16	4			-			1246	5	-8	
1809		108	18	0		634	17	5			_		*****	644	15	3	
1810		195	14	1		1309	6	4	*****		-			894	11	3	
1811		1308	4	0	*****	8050	8	3	*****	£ 19	8	6		All S	- 10		
1812		2794	- 8	2	*** **	16790	19	4	*****	3609	17	3		-			
1813	****	3050	16	2		17437	14	9	*****	4089	9	6	*****	-	-		
1814		3977	4	3		25953	2	6		9729	8	3		111	40.0	1G/A	
1815		3550	13	0		20249	6	1		7654	9	6		100	and		
1816		2265	11	0		11151	18	0	** ** **	1622	12	- 7		Section 1	5.10		
1817		2087	1	3		10511	3	8		742	6	8		-			
1818		1982	3	3		14930	19	- 5	*****	4602	16	9	*****	-	4,000	136	
1819	****	1128	3	i		7151	5	4		1435	14	2		1,102	46,53	cog	
1820	****	338	8	0	*****	2116	3	19	*****	1714	2	3		Days.	4(0)		
1821	****	280		1		1399	6	9		2895	8	5		-		254	
1822	****	1094	8	0		5942	- 8	- 5		694	4	11		441	40.00	200	
1823		1276	1	0		11362	11	8		4153	1	0		III TOM	4 10	100	
1824		824	13	1		5200	- 5	- 8		524	10	0		109 Pm	410	SIZ	
1825	****	342		3	*****	2747		3		Tonia.	-			1257	18	II.	
1826	****	439		9	*****	1923		9			-		*****	1651	7	3	
1827	****	253		0		1130		9		EH III	4		*****	740	9	0	
1828	****	85		3	*****	806		8	*****	338	12	3	****	econ #	2500	45	

£167,181 12 2

From this it will be ob

£43.826 12 2

£8866 12 11

tirely confined to one lode, 27,490 tonsof copper ore were sold at upwards of 6l. per ran, notwithstanding the depression of the metal market during a long per riod, and although wages and every description of mining materials were in most cases nearly 100 per cent. dearer than they now are, which appears to usaffy the remark in the report of Oct., 1819, that Wheal Crebor was "an instance of one of the largest undivided deposits of ore in the district." It has also to be borne in mind, that mining operations generally, but chiefly the modes of crushing and dressing the ore, were then comparatively much more expensive. Four shafts had been sunk—viz.: Cock's, Smith's, Kelly's, and Ruudle's, to the respective depths of 45 fms., 100 fms., 135 fms., and 104 fms. from the surface. Rundle's shaft is the westernmost, and we are informed that about 30,000!. worth of one was raised from it; but, being at the boundary of the sett, the evels could not be extended further, and the then proprietor of the adjoining and declined to grant it. From this fact, and from other causes, among which he adventurers were unwilling to incur the expense of sinking deeper, and without operating on any of the parallel lodes, the works were abandoned about the year 1828.

land declined to grant it. From this fact, and from other causes, among which the adventurers were unwilling to incur the expense of sinking deeper, and without operating on any of the parallel lodes, the works were abandoned about the year 1828.

In 1844, a company, divided into 128 shares, was formed, with the object of giving trial to the parallel lodes, and the sum of about 2000? expended in the urcetion of machinery, clearing up the adit, &c.; but, in 1846, the railway panie, the depressed state of sining about that time, and the inability of some of the adventurers to pay the calls, caused the suspension of the works.

The present company is divided into 1024 shares, upon which a call of 12. 10s. per share has been made. The sum of \$251. is to be paid for the sett and materials, including a substantial water-wheel erected, dat-rods, &c.—the former adventurers taking 174 shares in the new concern, upon which they pay all calls, including the first; but one of the most important and valuable foresties is the acquisition of a lease of maiden ground, 200 or 300 fms. in extent, at the old western boundary, so that the old levels can be continued on the same course that proved as valuable formerly. Mr. Wolferstan, of the British United (who has reported on this property, together with Mr. Adam Murray, jun., &c.), considers this a very important addition to the sett, and observes—"Some pits were sunk about two years since in the new ground, and the back of the main lode seen; but they are now filled in. I am informed, on good authority, that the gossam, and other indications, were highly encouraging, and that the drivage in the old working can be continued under this part of the sett; and it can, therefore, be developed at a moderate cost." Rundle's shaft (the westernment) is \$8 fms. to the adit, and \$6 fms. below the adit. Mr. Murray confirms Mr. Wolferstan's opinion; and recommends that the 40 fm. level from the surface should be driven west on the setts. He had a surface should be driven west on the setts, he

e results.
his adventure has been taken up, we understand, through the instrumenr of Mr. J. H. Murchison, whose name is not unknown to our readers;
his fact, together with the names of high standing and considerable exce, which we are glad to see on the committee of management, is a guae of the concern being scientifically and economically worked.]

Original Correspondence.

THE MANAGEMENT OF MINES.

THE MANAGEMENT OF MINES.

Sir.—The success of a mine depends greatly upon its management. It is a well-known fact that several mines, now in a profitable position, were but lately on the verge of bankruptcy, the result of incompetent management. Riches were within the grasp of the adventurers, but the managing parties had neither the talent nor energy to develope them. The present belief appears to be, that a board of directors is the best and safest thing to conduct a cost-book adventure; at least, one would imagine so, from the numerous companies which have lately been advertised, with a goodly array of Joneses and Jenkinses, Esgrs., as the directors. In the multitude of councillors we are told there is wisdom; but I have ever found that with a multitude of management there is a deal of ignorance and mystery, and but little progress. I have a strong prejudice against cost-book adventures managed by boards of directors. In the first place, directors will not work for nothing, be the adventure either in a prosperous or a bankrupt state; every balance-sheet presents a formidable item, denominated "directors' attendance." "Well," exclaims some generous large-hearted individual,, "and would you expect the gentlemen to work for nothing?" Certainly not; if I did expect it, I am pretty sure my anticipations would not be realised. What I want to see is committees in the place of boards of directors. A committee will act gratuitously where directors will not. A board of directors in a cost-book company is an absurdity—a useless, needless, and expensive thing. A committee appointed from two or three of the chief adventurers is quite sufficient, and who will gladly meet and discuss any question which the secretary, or purser, as the case may be, may call them together to decide upon, without being paid for it; but with a board of directors, which conveys an idea of expensive majesty. If you have a director, you must pay for the luxury; like the lawyer and physician, he must have his fee, whether you derive benefit from h thus cramped in his exertions; and if the mine does not become profitable quite so soon as was anticipated, he is censured, and perhaps discharged, as an incompetent person; whereas, were the cause traced to its fountain-head, it would be found to proceed from the directors' incurable presumption and love of meddling with matters they cannot possibly be competent to decide upon. In most cases, where there is a board of directors, there is a great deal of mystery; the truth is difficult to obtain, the shareholders being able only at general meetings to arrive at something like the true position of the adventure. Where there is mystery and secresy, there is unfortunately but too frequently deception; and the less we have of that fashionable peccadillo in mining the better will it be for our bank balances and social quietude.

and social quietude.

But what I chiefly complain of, Mr. Editor, is that the system of managing cost-book adventures by boards of directors, composed of perfect ignoramuses so far as mining is concerned, is daily becoming, to all appearances, more prevalent. I feel confident that the change from the old pearances, more preval pearances, more prevalent. I feel confident that the change from the old established custom will be anything but productive of general benefit. Though we live in an enlightened age, I doubt if we exist in one so substantially wise as days long past. We have a host of improvements, but no 'real good emanating from them—daring innovations, whose only result will be the certain and inevitable fate of human presumption, discomfiture and ruin. The time-honoured systems of our forefathers were based upon sound reason and universal justice; our modern systems aim at universal aggrandissement. A system that of old could be carried out by one able head, now must have the united wisdom of a dozen craniums to effect its operation. We are either lamentably degenerated in point of

intellect, Mr. Editor, or else the rapacity for gain is greater with us than it was with our sires.

Management by boards of directors, especially modern ones, cannot be too strongly deprecated. Your director is, generally speaking, an individual of a delicate sensibility, and of a peculiar languid temperament, which nothing but a golden balm cas renovate. Do not imagine, Mr. Editor, that, like your own immaculate brotherhood, the directorial fraternity are all philanthropy and disinterestedness. The chief trait in a director's character is a burning desire to advance his own interests, and an unscrupulous feeling as to how his object is attained. I am rather severe, but these new systems need severity. I would see them checked, knowing well their object and tendency. Some future time I may address you again upon the subject; in the meantime, I subscribe myself Camborne, May 14.

DEVON GREAT CONSOLS.

Camborne, May 14.

DEVON GREAT CONSOLS.

Sir.—Would it not be an instance of wisdom in the directors of these extensive and valuable mines to give the subject of a railway thence to Morwelham a greater measure of attention than they appear to have bestowed upon it? I am aware that they have not omitted all attempts to secure for themselves such a desideratum; but the fact that no such railway exists, nor progresses, is the basis of my opinion, that every effort has not been made to obtain it. A gentleman, conversant with all the proceedings of the company, informed me that there were insuperable obstacles standing in the way—that the owner of the land which would be required for the railway would not consent to sell it; and, if he would consent to sell, another obstacle, in the shape of an Act of Parliament for rendering navigable the River Tamar, should successfully resist the obtaining of an Act for the construction of this railway. I can point out a way in which, I think, it can be made without the concurrence of either the owner of the land or of Parliament; but, in the first place, I would be quite sure that I could not obtain the consent of both, or at least of the owner. In all mining leases which I have read, I think there is contained a grant of liberty to erect all ways and conveniences for carrying on the mining operations. I have no mine lease at hand, and, therefore, cannot quote the words; but I have an impression that the grant in every lease confers a liberty to do anything, within the limits of the sett, that may be found necessary for carrying on the works; and one thing quite necessary is to transmit the copper ore to a place of shipment; and another thing, just as necessary, is to convey wood and materials to, and for the use of, the mines. For this transit, or conveyance, a railway would be a much superior thing to the present hilly and circuitous road, and considerably less expensive. My plan, then, would be for the leases of the three setts, comprising all the distance from these mines to

mitted to remain for the use of the neighbourhood, for which they would be a great accommodation.

It is a very common circumstance to witness railways made by mine adventurers for the use of their mines. They may be seen in every large mine, and in many small ones. The railways at Carn Brea Mines, made by that company, measure, I believe, more than a mile. Now, if it is lawful to construct a railway through a part of a sett, it must be lawful to extend it, if need be, through the entire sett; and if it be lawful to remove a short railway from a mine, it must be lawful to remove a long one; and I conceive that a railway is no more attached to the freehold than a whim, flat-rod, or water-wheel. For the lord to require a railway to be left on the mine at the end of the term, without a consideration, is preposerous in the extreme. He could as reasonably require the engines and other machinery, and the account-house furniture, to be left there without payment. What objection the owner could urge in reference to this railway, I know not, except that the birds and hares would be scared off the line! I should think, however, that the arguments in favour of railway for the use of a company paying him about 9000l per annum, would outweigh the argument in favour of birds and hares, which animals are distant from his cottage about three miles.—R. Symons: Truro, Man 10.

DEVON GREAT CONSOLS.

DEVON GREAT CONSOLS.

SIR,—I find from the report, in your last Number, of the annual meeting of the proprietors of the Devon Great Consolidated Mines, that Mr. J. H. Hitchins, the late superintending engineer or agent of those mines, sent in his resignation of his situation as such agent—which resignation was accepted—but offering his services as the mineral surveyor of the company, which offer was also accepted. I do not know of what value the new situation may be to Mr. Hitchins, but if it should be of less value than the previous one (which I assume is the case, for mineral surveys are not wanted every week), I beg to express my regret that the proprietors did not decline to accept of the resignation, unless absolutely forced upon them. Considering that the proprietors are mainly, if not exclusively, indebted to that gentleman for their valuable property in those mines, I think that gratitude should have influenced them to retain him so long as it was in his power to serve them at all. It is usual in this county to grant to the author of a rich mine a good permanent post connected with the management thereof. Mr. Hitchins is a clever man in the science of mining, and his general character is such as to merit the high esteem in which he is held where he is known.—R. S.: Truro, May 16.

ILLOGAN AND CAMBORNE MINING DISTRICT.

ILLOGAN AND CAMBORNE MINING DISTRICT.

Sir.,—My patrons, the subscribers for the map of this district, are fairly entitled to an explanation of the cause of the delay in its publication; I shall, therefore, feel obliged by your insertion of this short notice. The delay has been owing to two causes. Firstly, the want of many good surface plans of mines, which I have now supplied; and, secondly, to my other ordinary employment. But I am happy to say that my map is about to be put into the hands of the printer, who has promised to give it his best attention. My friends may, therefore, calculate on being furnished with copies of a map of this most important mining district, of an unexceptionable character, at an early period.—R. Symons: Truro, May 16.

REMARKS ON Mr. EVAN HOPKINS'S WORK, "ON TERRESTRIAL MAGNETISM."

REMARKS ON Mr. EVAN HOPKINS'S WORK, "ON TERRESTRIAL MAGNETISM."

Sir,—A few weeks since Mr. A. Dumaresq referred Mr. Hitchins for an answer to his remarks in your Journal to the above work; I have since had the pleasure of reading it. The theory of terrestrial magnetism is almost new to the mining world, and not yet sufficiently developed for a sure guide; but its effect is very clearly shown in the plates, and it is with pleasure that I acknowledge it to be the most instructive work for the miner's guide that I have yet read. The author has come out so boldly in opposition to the school-taught theory, as to crystalline rocks and mountains being of igneous origin, as to ensure its meeting the views of nine-tenths of the practical miners. Most miners take a different view of the origin of the rocks, mountains, and lodes or veins, from the law laid down by geological societies and professional men. There certainly are a few that may be inclined to think that the cinder-like stones found in the gossan on the back of lodes, and the native metals, are produced by great heat in the earth; but the great majority believe, and know, it to be produced by nothing more than a slow chemical action gradually going on in the earth, from different substances meeting, acting, and combining with each other, without any of these great heats, as attempted by many to belaid down as a law for the miner's guide. If the mountains were formed on the igneous principle, when did it cease acting? There is no record on mining that gives the slightest hint as to any miner ever coming in contact with any of these natural melting processes; if they ceased before mining commenced, these veins must have remained stationery ever since; but few practical men believe this to be the case, their daily experience of the earth's natural laws tell them otherwise; and I should recommend every mine agent that does not fancy himself sufficiently learned, and the practical miner who thinks some day to encircle himself in the duck jacket, to lose no time in

intellect, Mr. Editor, or else the rapacity for gain is greater with us than it was with our sires.

Management by boards of directors, especially modern ones, cannot be too strongly deprecated. Your director is, generally speaking, an individual of a delicate sensibility, and of a peculiar languid temperament, which nothing but a golden balm cas renovate. Do not imagine, Mr. Editor, that, like your own immaculate brotherhood, the directorial fratternity are all philanthropy and disinterestedness. The chief trait in a director's character is a hurning desire to advance his own interests, and

ON THE SILVER MINES OF CORNWALL.

Treborough House, May 9.

ON THE SILVER MINES OF CORNWALL.

Sir.—I say, with Mr. Ennor, it is with pleasure I look over your interesting columns; and, on reading his productions in your Journal of the 4th inst., was rather surprised at his saying he is not an advocate for working silver mines, and asks the advocates of silver mines to tell him of one that ever paid expenses. This would be rather a difficult task for persons not having had to do with them. Mr. Ennor says, he happened to first discover the silver in Wheal Duchy, about 40 years ago, and took out 1000l. worth the first week, a large portion of it native silver. As to 40 years since, if dates be true, the mine was opened in 1802, and much silver raised by Uncle Wick Nicholas, who at that time lived at East Harrowbarrow, and Mr. Ennor lived with his father at Cold East, near Harrowbarrow, the first place he lived in after coming from his well-known parish, in the west, which I think was in the year 1810 or 1811. I think that above 1000l. worth of silver was raised for many weeks; nothing but native silver was then known. As to gossan ore, be it as rich as it might, unless it would "plate" (ductile) under the hammer, was not considered worth saving, as was most satisfactorily known by Mrs. Ennor's father's brother, who sold thousands of tons of gossan to Mr. Lucis, which had been left in large piles on surface in Mr. Ennor's boyhood, varying in value from 30l to 50l, per ton. After the surface piles were removed, the same persons commenced underground about 1828 or 1829, and worked profitably for many years above the adit level. Hence their lease expired, when the sett was granted to Robert Malachi, in 1833. Just after which a 40-feet water-wheel was built, and the water drawn out of the mine, which was 10 fms. under adit, with a few sinks under that level; the whole of the stulls (deads left after the vein is worked) left in Mr. Ennor day were taken ways, and sold for from 10l to 12l per ton. I really cannot tell, Mr. Editor, why a silver lode should

SILVER MINES IN CORNWALL

SILVER MINES IN CORNWALL.

SIR,—My attention was arrested on reading a letter, by Mr. Emor, about the silver mines of Cornwall, inserted in your Journal the week before last; and I must say I, with many others in this neighbourhood, was surprised at the unjust manner in which he cautioned adventurers against investing their capital in the working of silver mines in this county; and his stating, solely from his own imagination, that, should any be found to do so, the result would be raination. I will not now enter fully into a debate on that subject, as I have no doubt his letter will be answered by others more competent to reply to it than myself. One remark of Mr. Ennor's I must not allow to pass unnoticed. He states, "there would be no difficulty in pointing out a hundred mines in the county which have been worked for silver;" but I am in a position to assert that, at the outside, not more than one-third of that number have been worked. Mr. Ennor's experience, from his long connection with mining matters, is entitled to some respect; but I think he ought to be more careful and guarded in expressing so decided an opinion upon the futility of embarking in a speculation which is considered by many, equally as experienced as humself, as likely to prove a profitable investment of their capital.

O. C. F. Calstock, May 15.

MENDIP HILLS MINING COMPANY.

MENDIP HILLS MINING COMPANY.

SIR,—As I find there is to be a general meeting in London next week of the shareholders in this company, and as I shall not be able to attend, I trust some stareholder will call for Mr. Johnson's report on the works, in order that we may be able to judge for ourselves how far it has conduced towards the recent depression in the value of our property.

A SHAREHOLDER. London, May 14.

may be able to judge for ourselves how far it has conduced towards the recent depression in the value of our property.

A STARRICLEME.

London, May 14.

BWICH CONSOLS MINES—LONDON AND LOCAL MANAGEMENT-TSIR,—As there has been, for a long time, some ill-blood stirring between a coterie in the City and myself, with respect to the Bwich Consols Mines, which has afforded food for much comment, both to those interested and uninterested in the concern, it may not be amiss, with a view to a better understanding of the matter, to place a few of the leading features of this vexed question before the public, by means of your valuable columns, so that they may have the means of judging fairly between us. I do not intend to deny that some of my estimates have been drawn up in a sanguine spirit, but I contend, from what the mine did when it had fair play, that there was some reason for a feeling of triumph, and for looking forward with cheerful confidence to the future. The mine was undertaken in the August of 1847, under any promises of raising 00 tons a month. In June, 1883, the great wheel and field of machinery were accompanied the mine through all if so, proceedings, and which there ill that accompanied the mine through all if so, proceedings, and which are the interest of the proceedings, and which are the interest of the supplies and machinery had been allowed to accumulate, and then stood unliquidated against the mine, amounting to a large sum of money. In July, the first month after the machinery was completed, 70 tons of ore were raised and dressed, which at 12.4 a ton, free of royalty (a fair price at the firme), yielded a profit of 2001, taking the running cost of he mine, freed of extraneous matter. In August, the second month, the raising was 61 tons, worth 12002, the running cost of the mine, freed of extraneous matter, in the properties of the strength of the properties of the contrary, with the London management this was the apply incurted to a subject to the properties of the contrary with the prope BWLCH CONSOLS MINES-LONDON AND LOCAL MANAGEMENT.

WHEAL ANDERTON MINE.

WHEAL ANDERTON MINE.

Sin,—As there is but one adventure in Wheal Anderton Mine whose initials are "T.B.," and who I have a right to presume, in the absence of other data, to be your correspondent of the 4th and 11th inst., I shall feel obliged if you can furnish me with that gentleman's address—a rule I believe you to observe, in requiring the same from all correspondents—there being a call due on that gentleman's shares, which it is most desirable, if only for regularity sake, should be paid, and at once entered to his credit, which is the only credit I can admit. Surely, Sir, such communications partake more of the character of advertisements than correspondence; and were you to enforce payment, your columns would not be occupied by such worthless contributions. I have before stated that I give my name to my letter; let all do the same; and depend upon it that more useful matter will occupy the space now devoted to disappointed speculators.—James Carpenter: Wheal Anderton Mine, May 14.

LLWYNMALEES MINING COMPANY.

LLWYNMALEES MINING COMPANY.

Sin,—I am induced to address you on the subject of a report of Liwynmalees Mine, which appeared in your Journal of Saturday last, for various reasons. In the first place, the report in question I submit, not having been sent either by myself. Capt. Henry Francis, or any authorised person, ought not to have been published; secondly, the party writing such evidently has an object in grossly misropresenting what really took place. With this you will receive the chairman's rough minutes, by which you will perceive that Mr. Murchison, who proposed resolutions one and two, had, in reality, only, with his own and Mr. Carew's, 20 shares, and 57 proxies; while I, and other gentlemen present, held 419 shares and 223 proxies. Such a paper as yours ought not to be so imposed upon; and I trust, having been led into error, you will do me the favour, to publish my reply—not that I care as to the false report, but at a distance, to those who do not know all the circumstances of the case, such an unofficial statement may do harm. No priscal letters have been received; for nine gentlemen out of eleven at the meeting admitted having seen, on the same day, such as Mr. Murchison calls private letters, on their receipt by myself. The writer of the article in question admitted that he had never been refused a perusal also; I even advised the same party not to sell his shares at a low figure long since, as I have invariably done others, on account of good advice received, which was afterwards fully confirmed in the reports to the board. With reference to his remark on Capt. Henry Francis, I leave that gentleman, of course to defend himself; but I must in justice say, in conclusion, that no captain of a mine ever had at heart more the interest of the adventurers than has Captain francis since he has had the control of Liwynmalees Mine. I have not hitherto sent reports to your paper respecting this mine for this reason:—We are not in her "as a body "for jobbing purposes, "but investment;" and whether the pri

Cophall-court, May 16.

[We have only to observe that, in reference to the remarks appended to the respect of the meeting of shareholders in this mine, published in last week's Journal, Mr. Maitland, the purser, has forwarded us the original minutes, by which we find that the proposed resolutions were supported by the proxies of six shareholders, representing 57 shares; while the amendment obtained the support of all present at the meeting (excepting the proposer and seconder of the resolutions), and the proxies of 228 shares—the chairman not voting. In rendering this explanation, we have only to add, that while we are at all times anxious to obtain from correspondents particulars of meetings, and such comments thereon as may seem merited, we are also ever ready to rectify any error which may be fallen into; or to remove such blame or censure as may be shown to have been undeserved.]

Mining Correspondence.

ALFRED CONSOLS.—I am sure it will be extremely gratifying to you to receive from me, on the present occasion, the assurance that the reward due to you, as well for your perseverance in the pursuit of the object years ago indicated, as 6y your the necessity of making on you, has been developing itself for some time past in a more actemity for min an indicated in a calculated upon, or reasonyould allow mue to hope for it should it has been making on you, has been developing itself for some time past in a more actemity for min an indicated in the been making on you, has been developed itself for some time past in a more developed in the past of the

BARRISTOWN.—The lode in the 26 fm. level end is about 1 ft. wide, well mixed with lead. The lode in the 30 fm. level end east, on the east and west lode, is improving, producing full 7 cwts. of lead per fm. In the stope behind this end, in the bottom of the level, the lode will produce 1 ton of lead per fm. The wine sinking under the 30 fm. level is going on progressively, and the lode continuing pretty good and regular. We shall not cut this lode in the 40 fm. level as soon as we anticipated, the ground is not so favourable for driving. The new lode end west is poor. In the 30 fm. level and west, on the east and west lode, we have no change.

DEFICION INCIPED. The Ground we the 115 fm. level south is without

is not so favourable for driving. The new lode end west is poor. In the 30 fm. level and west, on the east and west lode, we have no change.

BEDFORD UNITED.—The ground in the 115 fm. level south is without alteration. We have not yet cut the lode in the 103 fm. level. There has been no lode taken down in the 90 and 80 fm. levels. The lode in Andrew's winze, in the 103 fm. level, as producing good saving work, and very promising. In the 70 fm. level east the lode is 32 ft. wide, producing stones of black and yellow ere and lead—good saving work. The 41 fm. level ereast the lode in 42 fm. level ereast cats north is progressing favourably.

CARTHEW CONSOLS.—The engine-shaft is now sunk within about 2 ft. of the 75 fm. level, and continues in very good ground; the lode in it produces some good work in lead. The rise in the back of the 65 fm. level north is holed to the 55 fm. level, which affords good ventilation in this part of the mine; we have again commenced driving the end in the 65 fm. level north, and find the lode very good in copper; we have of late, in this level south, driven through a good run of lead ground about 3 fathoms in length; to-day the lode is not found so rich, but the ground is very good. The cross-cut in the 18 fm. level south is, for the present, suspended, and also the adit level. At the lower mine an improvement is found in the tribute this week, in the discovery of a very good lode in copper in a pitch in the 65 fm. level north. In any other part I find nothing new of importance. The boller, which is an exceedingly good one, was brought on the mine yesterday, and no time will be lost in getting it faced. The crusiser-house is in a rapid course of building, and every other part of the work which is to be done in the mine for the engine is in a very forward state; but I am sorry to say that the founders are not so far advanced with the castings at I could wish, though is an using them on as much as possible. I have this day received the assay of the parcel of copper ores, which is 9 per

COMBLAWN.—We have hove in all our heavy work belonging to the en-gine, such as boiler, cylinder, bob, and shears, and fixed our first blece of main-rod. We have also the capstan rope, and all our pit-work on the mine, and loope to put the engine to work on the 27th inst.

EAST CROWNDALE.—Since my last report the lode in middle shaft has ry much improved; we have now a good branch of tin. No important alterations in the part of the mine. The 28 fm. level has reached the point to drive the crosser part of the mi

ESGAIB LLEE.—The caunter lode, in the deep adit, west of the june ENGAIR LLEE.—The caunter lode in the deep adit, west of the junction, is not improved since my last; the colour of the stratum about it at present appears rather dark for lead; the lode is large, with much mundle and quarts, but poor for lead. The caunter lode, in the 12 fm, level cast from surface, for the last 2 or 3 ft. in diving, has not been so productive as for some tima past, yielding at present about 10 cwts. of ore per fm. The same lode in the wince sinking below this level is much the same as last reported, yielding about 20 cwts. of ore per fm. The lode in the stopes, in the bottom of the shallow adit, west of Morgan's wince, is looking very promising, and will yield on an average from 15 to 30 cwts. of ore per fm. The wheel-ake is now in its place, and we are waiting the arrival of the segments of the wheel at Aberysawith.

re waiting the arrival of the segments of the wheel at Aberysawan.

HEIGNSTON DOWN CONSOLS.—The lode in the 35 fm. level, east of
the cross-cut, is 3 ft. 6 in. wide, with a leader of ore, 5 in. wide, of superior quality; the
the cross-cut in this level, towards the south lode, is without alteration since last reported on,
the cross-cut south of the winze, in the 45 fm. level, is also without important alteration,
he lode in the 45 fm. level, cast of the winze, is very much improved since last reported,
it being 4 ft. wide, 2 ft. 6 in. of winze, is very much improved since last reported
in the since the second of the second of the finest description, spotted

on, it being 4 ft. wide, 2 ft. 6 in. of which is gossan of the mass description, specific throughout with yellow copper ore.

HOLMBUSH.—The lode in the 132 fm. level, west of the diagonal shaft, is 1 ft. wide, composed of spar and stones of copper ore. The lode in the 120 fm. level could be 5 ft. wide, composed of quartz and stenes of lead, saving work. The ground in the 120 fm. level cross-cut south is still favourable, and also producing stones of lead. The flap-lack lode in the 100 fm. level, east of the great cross-course, is 2 ft. wide, composed of spar, mundic, and copper ore, producing i ton of the latter per fm. The pitches in the back of the level are much the same as when last reported on.

KINGSETT AND BEDFORD.—The rise near Carpenter's shaft is much improved the last few days; the lode is 5 ft. wide, and is producing some excellent stones of lead—the last taking down far exceeded any thing before seen in this part; the end driving south of the rise is also improved; the lode is 6 ft. wide, with some rich stones of lead, We expect shortly to unwater the old workings, about 25 fms. above us, where there is a good course of lead gone down, as we have cut a large stream of water in the rise, which we expect sproved the workings about 25 fms. above us, where there is a good course of lead gone down, as we have cut a large stream of water in the rise, which we expect sproved is completed, and crushor, drawing machine, stamps, &c., in course of erection. No time will be lost in getting it completed, after which we hope regularly to send lead to market. KIRKCUDBRIGHTSHIRE.—In Stewart's shaft the lode is 5 ½ ft. wide, a

KIRKCUDBRIGHTSHIRE.—In Stewart's shaft the lode is 5½ ft. wide, a sery kindly spar with it, yielding 6 cwts. of lead to the fm. In the 62 end west the lode is 4 ft. wide, with fine stones of ore, yielding 6 cwts. to the fm. The lode is very large in the 50 end west, it is now making a little spar again, with spots of ore. We have little off a cargo of lead ore again this week.

nippen om a cargo of lead ore again this week.

LLWYNMALEES.—In the 8 fm. level west we have very good ore—in fact, is to-day much as last reported. The two stopes in the back of the 8 fm. level west ontain a great deal of ore, and look quite as well as I have ever seen them. We have een idle in the 14 fm. level west during the week; the stream of water in the end of its level has much increased, and it is only whilst our wheel is crushing that we are nabled to fork any of it. We do not at present work the wheel by night, as if we do ithout rain our water will run short; this will soon be obviated, as the walls of the enine and boller-house are now over 8 feet high.

gine and boller-house are now over 8 feet high.

LAMHEROOE WHEAL MARIA.—I beg to hand you a statement of the different lengths we have driven in our ends and cross-cuts at the engine-shaft:—Cross-cut north in the 60 fm. level, 15 fms.; end east in the 60 fm. level, 6 fms. 3 ft.—we intend taking down the lode in this end on Monday next; in the end west, in the 60, we have driven by the side of the lode 8 fms., and shall cut through it, to ascertain its size and value, at the close of next week; end east in the 50 fm. level, 4 fms.; at Davey's shaft, end driven north in the 50 fm. level, it if ms., and shall have about 5 fms. before we intersect the lode cut in the 30 fm. level; end south, 7 fms. The following is a further assay of the tin lode, by Mr. C. Blinks:—This is a remarkably clean and fine sample of tin ore, and gives 71-3 per cent. of pure ore. I enclose you a sample of the metal as obtained direct from the ore.

SOUTH WALES MINES.—The could be seen the first control of the metal as the source of the seen the first control of the control of the seen the first control of the metal as obtained direct from the ore.

ained direct from the ore.

SOUTH WALES MINES.—The south or Frongoch lode, in the 12 fathom wid, east of the cross-cut, is much the same in appearance as for some time past, being emposed principally of gossan, quarts, and slate, and producing a little lead, but not afficient to sot a value on. I cannot speak of any alterations since my last in the old orkings, the lode being 4 ft. wide, with several small branches of ore running through, and has a promising appearance.

SOUTH WHEAL JOSIAH .- The adit end driving on the Wheal Jack omas lode is a little improved since my last; although the ground is a little harder, re is more ore in the lode. Towards the south part of the mine we have discovered a looking lode, which we call a tin lode, as it have been worked extensively on the iss for tin, and is now producing some good work; but I believe it will make a coplede in depth, as we have fine gossan, spar, and greens in the shaft, sinking on the ne about 4 fms. from the surface.

**same about 4 fms. from the surface.

'IRESCOLL.—According to your wish, I have sent you some specimens of the rich course of tin in this mine; the lode at this time is about 2 feet big, I foot of it nearly as good as the specimens I have sent you. We have also two other good lodes at the bottom of the mine. We have likewise discovered a very rich lode in the moors in the tin stream; altogether the mine is very rich at this time. I must impress on your mind that this course of in is not a bunch, as we have taken hundreds of pounds from the same course, and traced the same from the adit to this place. We shall every week be catting fresh lodes at the bottom level; and no doubt they will be good, as some of them were good at the adit level.

TRELEGING CONSOLS. Lather 100 fm. level, we work of Cavalovic where one

them we's good at the adit level.

TRELEIGHT CONSOLS.—In the 100 fm. level, west of Garden's shaft, on Christoe's lode, lode 1 e. wide, with stones of ore. In the 90, west of ditto, lode 18 in. wide, worth 34 per fm. by the 80, west of cross-cut, on north part, lode 1 ft. wide, with stones of ore. In the 70, west of Garden's shaft, lode 4 ft. wide, worth 164. per fm. In the winze sinking below the 60-jode 2 ft. wide, with stones of ore, and is looking mere kindly. The engine-shaft below be 40 fm. level, on Whoal Parent lode, is sinking in the country, the ground still confuser good for sinking. The 40 cross-cut, south of ditto, is driving towards the middle lode. In the 40, east of ditto, lode 18 in. wide, with stones of ore. In the winze sinking below the 30, lode 20 in. wide, with good stones of ore. In the adit east of Nicholson's shaft, on middle lode, the lode is disordered by a cross branch.

WEST WHEAL JEWEL .- We have not taken down the lode in either of WEST WHEAL JEWEL.—We have not taken down the lode in either or the ends on Wheal Jawel lode since our last report. Treveek's winze in the 70 fm. level west of Williams's cross-course, on Wheal Jewel lode, lode worth 4t. per fm. Carkeek's winze in the 70 fm. level, west of ditto, worth 20t. per fm. The along adit level, west of Tregoning's shaft, on Telcarne tin lode, worth 5t. per fm. The deep adit level, west of Tregoning's shaft, on the same lode, unproductive. The 12 fm. level, west of Tregoning's shaft, on the same lode, unproductive. The 12 fm. level, west of Tregoning's shaft, on the same lode, worth 25t, per fm. The stopes in the bottom of the 12 fm. level, east of Tregoning's shaft, on the same lode, worth 22t. per fm. The stopes in the bottom of the same lode, worth care, we have stopes are working on tribute.

WHEAL PENHALE—Signs my last we have been somewhat deleved in

Thes stopes are working on tribate.

WHEAL PENHALE.—Since my last we have been somewhat delayed in sinking the engine-shaft, owing to some breakings in the engine, all of which are now put right, and she is again working remarkably well. The shaft is now about 4½ fms. below the 30 fm. level; the ground continues much as it has been hitherto in this sink—that is, better than it any lift before sunk here. The lode in the north end 30 fm. level is very large, and yielding a fair quantity of lead. The lode in the south end, at this level, is looking very well. In the winze in the bottom of the 20 fm. level north, the lode looks much as it has been of late reported—large and productive. I have also a winze sinking in the bottom of the same level south, about 7 fms. shead of the bottom end, and in which we have a very good lode in lead. The south end 10 fathom level is suspended. The tribute is much as last reported, but little lode having been taken down in any of the pitches. The assay of the parcel of copper ores next for sale is 7 per cent.

WHEAL SARAH.—Some accident has delayed the weekly report from the

WHEAL SARAH.—Some accident has delayed the weekly report from the agent of this mine. The works are, however, proceeding with vigour, and the ends of the 30 fm. level, upon the lode, are looking well; 10 tons of silver-lead ore (6 tons from the lode, and 4 tons from the gossan) are now ready for sale, preparatory to which assays of its value for lead and silver are being made. Full particulars of the workings will be reported next week.

of its value for lead and silver are being made. Full particulars of the workings will be reported next week.

WHEAL TREMAYNE.—At Laurie's shaft, in the 30 fm. level west, the lode continues large, with a little tin—not to value. At Madron's shaft, in the 60 fm. level west, the lode is worth 61, per fm. in the 60 fm. level east, the lode is from 2 to 2 ft. wide, worth 51, per fathom. In the 70 fm. level west, the men are employed rising to communicate with the level above, opening ground that will work on tribute. In the 70 fm. level east we are opening iribute ground; the rise in the back of this level has been commanicated with the 60 fm. level. The 70 fathom level, on south branch, being very poor is suspended, and the men employed to drive a cross-cut further east to intersect the same branch, and a cross-cut is also driving in the 60 fm. level for the same purpose. At Thomas's shaft, the 50 fathom level west is still unproductive. At Painter's shaft, in the 30 fathom level west, least 4 or 5 fms. has been very changeable and disordered by a lode, or branch, that has crossed the end. The new shaft sinking landvance of this end is down nearly 20 fms. from auriace—ground rather harder than usual. At the new shaft, in the 53 fm. level east, on Allen's branch, the lode is worth 51, per fm. In the 53 fm. level east, on Allen's branch, in the 53 fm. level east, on alto, the lode is worth 71, per fathom. The boundary shaft will be completed to the 53 fathom level this worth 72, per fathom. The boundary shaft will be completed to the 53 fathom level this worth 42, per fm. In the 53 fm. level, east, on ditto, the lode is worth 74, per fathom. The boundary shaft will be completed to the 53 fathom level this worth 45 per fm. In the 53 fm. level, east, on ditto, the lode is worth 74, per fathom. The boundary shaft will be completed to the 53 fathom level this worth 45 per fm. In the 53 fm. level, east, on ditto, the lode is worth 75 per fathom. The boundary shaft will be completed to the 53 fathom level this worth 45 p

FOREIGN MINES

and the second s							
LTEN MINING ASSOCIATION	ON	-Est	imated	prod	uce for	Ma	rch:-
Mines.	Tons	of O	re.	Per Ce	nt.	Fine	Copper.
Raipas		. 38		10	*****		3.80
Old Mine		45		5	** ** **		2.25
United Mines		38		4			1.52
Michell's		20		7			1.40
Carl Johan's		6		10			0.60
Manour's		3		5			0.16
PUBLISHED AND SHALE IN THE PERSON		-			100		
Total		150		110			9.73

Mining Report from the 19th March to the 20th April.

Raipas.—The returns have again experienced a failing off in the quantity, having become more dredgy; the quality is also somewhat deteriorated. The mining cost, however, shows a corresponding reduction, and notwithstanding the present small returns, the actual profit on the workings will undoubtedly be found to exceed that of any recent period. The prospects of this mine are still very favourable, and we hope the tributers hereafter will be more successful. The reduced per centage of last month's produce, although affected by the small returns of prills and less dredge, must be mainly attributed to an insperied dressing, arising from the many obstacles experienced from the very stormy, snowy, and frosty weather, but as the summer advances we hope again to make better progress. We are now driving the 30 fm. level towards the large pitch under the better progress. We are now driving the 30 fm. level towards the the large sight under the 20, and as soon as a communication can be formed with the winze under the old stope, we propose driving in the opposite direction, towards the north-nest, and under the last discovery in the 20 fm. level. A thisw having set in towards the close of the month, made it rather difficult for us to return the whole of our ore, but by driving by night, when the snow has generally been frozen, we have at length been able to bring down the whole of last month's produce. The different tribute settings for the enauling two months are shown on the accompanying list of settings.

United Mines.—The lode has somewhat deteriorated, in consequence of the mundley nature of the ore; it is still large and regular, and yields some small returns. The new level to the eastward has latterly shown signs of improvement, and the quality of the ore appears better than that of any other part of the mine; the ground, however, is rather hard for driving, and somewhat retards the favourable progress hitherto made.

Old Mine.—The tribute pitches above the adit lavel are now getting nearly exhausted, and in consequence the number of tributers on this part has been considerably reduced. The fode in Slungt's sink developes level favourable, with equally promising prospects; the new sink towards the north-east is also somewhat improved, but the ground is hard and difficult to drive. On the new lode, north of Bergmesters, we have been obliged to suspend further operations until a change of weather takes place, and in consequence of a sudden and unexpected thaw having inundated the workings; we, however, hope to resume this working as soon as the ground is free from snow. The adit progresses favourably, but as yet without intersacting the lode; I the other workings have undergone no change. The quality of last month's returns is below the expectations we had formed, but now the summer appears to be setting in, we hope to make better returns.

Mancur's.—The lode is still hard, and yields but a trifling quantity of tribute ors. No improvement can yet be noted; we expect the thaw will shortly compol us to suspend this working until next winter.

Michell's.—An improvement is visible in the new sink, where the lodes are still divided; they look very promising, and yield ores of a good quality. Nellen's lode continues to produce some small parcels of ore of the usual quality, but those do not increase. On the new lode the influx of snow-water has put a stop to our proceedings at present, but we hope it hat this untoward circumstance will be of short duration; in the meantime we employ the tributers on picking over the

employ the tributers on picking over the old stulls in the mine and the halvan heaps at the surface.

*Carl Johan's.—The lode in the bottom of the sink continues promising and productive.

*Carl Johan's.—The lode in the bottom of the sink continues promising and productive, but on the side nearer the surface it is not quite so large; the ore here is also less, but its quality has somewhat improved. The deterioration in the quality of the ore observed at Raipus has also been general throughout, and for the same reasons as there assigned halvans, from which we cannot expect better returns; and for the sake of keeping the people employed until the summer, we have been obliged to carry on this work. When the summer fully sets in, we have no doubt of our operations being again attended with the usual good success. The winter roads are now breaking up very fast, and we fear that more than ordinary difficulties will hereafter be experienced in returning the produce of the mines to the smelting-house, but we must take the advantage of every favourable change in the weather for bringing down the ore, and still hope to be able to keep the smelting-house supplied. With next post I shall have the honour of handing you the usual annual results of our mining proceedings, which we have every reason to anticipate will give you satisfaction.

KINZIGETHAL MINES.—The following report has been received:

KINZIGTHAL MINES .- The following report has been received :-

KINZIGTHAL MINES.—The following report has been received:—

Schappach, April 27.—I like to give you my observation and impressions from hence, whilst tiney are fresh, and what I have now to tell you, being the result of some 36 hours as journ here, could not be more so than they are. I got here yesterday about one oclock, and at three was in the depths of the Frederick Christian, all that I saw there was most encouracing. I athe 10 fm. level the winze bears every appearance of a continuous course of metallic ore, there being at present no means of getting rid of the water but by balley; the progress is slow, but there has been ruised in the last few days between 3 and 4 cwts. of fine lead ore, and Martin and Raby both estimate the present appearance of the lode at 100, per fm.; and, as it has daily improved, we may fairly hope this is within the value. Next week a hand pump will be fixed, and the progress will be rapid. In the sump-winze they are down 36 fms., so that in 4 fms. more, which will be finished by the first week in Jane, the 30 fm. level will be beginned. It will also have the advantage of being under all the old workings; and, on the whole, it is impossible to regard the condition of this mine as otherwise than most promising.

IVA DEE MINES.—The following have hear received since our last:**—

LINARES MINES .- The following have been received since our last:

Total..... Arrobas 8000 or about 89 tons

To balance of lead ore as per account furnished April 28, 1850 Arrobas 4066 20
Weighed in for week ending May 4, 1850 2330 15

Deduct loaded for Seville week ending May 4, 1850 4916 0

To next account

To next account

To next account

Remaining 1471

Poso Ancho Mine, May 4.—The water is now drained to the 45 m. level, and a great deal of the old workings has been examined. I am happy in being able to state that our most sanguine anticipations have been fully realised, by the appearances now visible in this level. We find the level driven about 16 ms. east of engine-shaft. A large portion of the back of this level on both lodes has been taken away, from which wast quantities of mineral must have been raised. In the end, or fore breast, there is a splendid lode that will yield 3 to 4 tons of lead per fm. There still remains a large quantity of unwought ground, especially in the vicinity of the fore breast, all of which shows a bean-tiful lode, and will produce from 3 to 4 tons per fm., which can be taken away at a low tribute, and which, we have no doubt, will give us several hundred tons of ore; this level west has been driven about the same distance from engine-shaft; the back of this level wost has been driven about the same distance from engine-shaft; the back of this level work has one worked altogether so extensively as to the east; in many places the lade has an excellent appearance—I may say there are five fine courses of lead, which will be worked at a low figure, and will yield large quantities of lead for a long time. In the fore breast of this level the lode is large and promising, and every appearance of soon making a good lode, but at present unproductive; though at a distance of a few feet only behind the end, the back shows a splendid course of ore, worth at least 4 tons the fathom. In Wilson's shaft the lode is still good, yielding about 6 or 7 tons per fathom, for the length of the shaft; this is now down nearly 7 fms. below the 31. Shaw's shaft is sunk from 6 to 7 fms. below the 17, ground favourable and progress low. Our tribute department is exactly as last month, with the exception of one partnership; these we have removed from the 31 to the 45, tribute 2 rials the arroba

UNITED MEXICAN MINING ASSOCIATION.

Maxico, Appril 12.—Mirks or Rayas, —With regard to the Mine of Rayas, the improvement in the workings of San Cresencio and San Cristobal, alluded to in my last letter, he continued without interruption, and, if any thing, has rather extended itself than other wise, inasmuch as the quantity of rich ore is greater than the preceding month, while the other classes, though in the same quantity, show a better quality lately.

The Mirk of Panson rocause continues much in the same state of limited operation at produce, but actually promises better results.

MIRK OF ALDAMA.—If am momentarily looking for the communication being effect between the interior cross-cut and the shaft, which will materially lessen expenses at

between the interior cross-cut and the shaft, which will materially lessen expenses and add ventilation, so much required. The vein also should be reached by the shaft in the course of next month, when the ostensible character of this undertaking will be developed and fairly tested.

Mine or Jesus Maria y Josz.—The preliminary operations of clearing and supporting the roadway, &c., having been finished, a cross-cut to the vein has been commenced to intersect the shaft, as in Aldana. The sinking of the shaft is going on effectively and rapidly.—Rayas profit in February.

Ditto March 10,428 0 2

Increase 8 5,832 4 4

Remiliances.—I have instructed Mr. Walker to forward by the May conducta such an amount as can be spared from my ways and means, as a remittance to the court, and also for the purchase of quicksilver, requested in my last despatch.

Haciendas.—The full and profitable employment of these establishments continues without any change.

BIRCH TOR AND VITHER.—There are about 16 fms. to drive in the 20 fm. level to the old engine-shaft, and 10 fms. to the junction of the lodes, and if the ground confinues as it now is, we shall accomplish this in six weeks from this time, and the old engine-shaft will be sunk to the 20 fathorn level by about the same time. We have taken down some of the lode in the 20 fm. level to-day; the lode is still amail, but produces more in that it has done for some time past; the lode will pay for driving the end. We have not yet cutfine south lode in the cross-cut from the 20 fm. level. The ground in the cross-cut to lutersect the north lode is likelier than it was. There is no alteration in the mins.

LINARES MINING ASSOCIATION.

At the adjourned meeting of shareholders, held on Thursday, the 16th inst., se Chairman reported to the meeting that applications for the additional area having been received to a greater extent than the proposed issue, the sard had made an allotment of 500 shares, in accordance with the resolutions in the general meeting on the 8th inst. He also announced that letters had sen received from the mines, of a highly gratifying nature, which were then ad to the meeting, and will be found in our Mining Correspondence; and, are being no further business, the meeting separated.

WEST WHEAL JEWEL MINING COMPANY.

The annual general meeting of shareholders in this company was held at the flices, Old Broad-street, on Monday last, the 18th inst.

Mr. HERRON in the chair.

After the usual preliminaries, Mr. Nicuotosox (the secretary) read the fol-wing reports from the directors, committee of management, and the agents:—

lowing reports from the directors, committee of management, and the agents:—

Directors' as Poper.

Reports will be read from the Committee of Management and the agents on the mino, o which your directors have little to add, as they embrace all the material points in recence to the operations during the past year. If may probably be recollected, that presons in the last annual meeting a cross-cut had been commenced from Buckingham baff, with a view of cutting Tolearne in inde in the 57 m. level, being 27 ms. below my former workings. Your directors had hoped that this trial would have been neccunished before this time, but, owing to the ground having become harder of late, a peol of two months may probably clause ero the lade to seen and proved at that dight; and, inasmant as the oreduce from the thin lote has mainly contributed to the support of se mine, the completion of this cross-cut is looked forward to with increased interest. Bloogh my very decided or permanent improvement can be noticed in Wheal Jowel de will become more productive, an opinion which they are justified in forming from a concurrent testimony of parties well acquainted with the locality. If will be astisctery to the shareholders to know that an extension of the ground west on this lode has an secured for the company. In reference to the recommendation of the Committee of anagement to carry out certain operations on the north mine, which you are aware has an suspended some time for want of funds, your directors would observe, that though ity alive to the importance of the suggestions of the committee, still they are of opinion at it would not be pradent to apply any portion of the funds in band to the prosecution those objects, until the fin lote has been proved in the 57 fin. level. The balance-sheet the year ending the lat inst, will be laid before you, which, on a comparison with that the preceding year, shows an estimated loss of 40. only. Your directors, however, it incuments on them to state, that without further discoveries are made,

 Arsenic
 11
 5
 0-£7729
 2
 1

 Mine cost, 12 months
 £5515
 9
 10

 Merchants' bills
 859
 0
 6

 Lord's dues
 268
 8
 8

 Interest account
 23
 5
 8

 Balance
 1071
 17
 5-£7729
 2
 1

Assetts, 17181. 5s. 5d.; liabilities, 6571. 1s. 7d.

May 7.—The 85 fm. level, west of Williams's cross-course, on Wheal Jewel lode, is eing driven by aix men, and 1s now 35 fms. west of Williams's cross-course—lode 1 ft. die, looking promising, with stones of good ore; and being nearly under ore ground in a 70 fm. level, we anticipate an improvement shortly, particularly as it is draining the vel above. The 70 fm. level, west of Williams's cross-course, on the same lode, has sen driven by four men, is now 52 fms. west of the cross-course, 30 fms. of which is trivial ground—present end worth 6. per fm. We thought it advisable to suspend the end or the present, in order to sink a winze (about 20 fms. west of Treweck's winze) in the melevel, as both cannot be worked at the same line, for want of sufficient air. Treek's winze, in the same level, west of the cross-course, on the same lode, is down 5 fms. or 10 fm., and has been open ing tribute ground—this end is west of Williams's cross-course, on the same lode, is driving by four men, lode at present unproducte—this end is suspended in order to rise on Williams's cross-course, to the same lode, is driving by four men, lode at present unproducte—this end is suspended in order to rise on Williams's cross-course, to the manufactor to the winze in the deep addit: the rise is up 14 fms., winze down 14 fg fms. communicate to the winze in the deep addit: the rise is up 14 fms., winze down 14 fg fms. It. The shallow will keep i, is extended 7 fms. west of Tregoning's shalt, on Tolearne lode, through tribute ground—present end worth 6. per fm. The deep shill kerte is a present of Tregoning's shalt, on Holearne lode, through tribute ground—present end worth 6. per fm. The deep shill kerte is a present small and unproductive. The 30 fm. level is extended on the same lode, with occasional strenes of a present small and unproductive. The 30 fm. level is extended on the same lode, with occasional strenes of a present small and unproductive. The 30 fm. level is extended on the same lode, with occasional strenes of a present small

The CHAIRMAN observed that he had few observations to make, as the report fully explained their present position; he wished it, however, to be borne in mind, that their tin reserves were being worked out, and much depended on the result of cutting the Tolcarne tin lode in the 57 fm. level. To carry out, however, the recommendations of the committee, he thought it would be necessary to make a small call of 10s. per share, which operations it was generally believed would tend to place the company in a highly advantageous position. Some general conversation ensued on the details of the works recommended, of no public interest, in which Messrs. Harvey, Laurie, Bawden, and others took part, when the following resolution was passed:—"That the thanks of the meeting be given to the Committee of Management for their attention to the interests of the company, and regrets to receive notice of the resignation of Messrs. John and William Richards; but hopes they will be induced to continue their services until the next meeting of shareholders." The reports and accounts were received and adopted. Mr. Bawden having gone out of office by rotation, was re-elected a director; and thanks having been voted to the chairman and directors, the meeting broke up.

ST. AUBYN AND GRYLLS MINING COMPANY.

ST. AUBYN AND GRYLLS MINING COMPANY.

At a general meeting of adventurers, held at the mine, on the 7th inst., the accounts for 14 months, being from the commencement of operations to end of March last, were examined and passed, showing—Labour cost, 355£ 0s. 6d.; merchants' bills. 287f. 10s. 10d.; lord's dues, 23£ 9s. 4d. = 1166£ 0s. 8d.—By calls received, 627f. 10s.; copper ore sold, 318£ 8s. 6d.; tin ditto, 104£ 1s. 2d.; leaving balance against the mine, 116£ 1s. A call of 30s. per share was made. It was resolved that the meetings in future be held every three months, the mext to take place on Tuesday, 13th August next. The following report, from Capt. Thognas Richards, was read:—

May 7.—Since we commenced operations in this mine, February 5th, 1849, we have had to clear and secure the adit from Pope's shaft west to nearly Hill's shaft, on the engine lode, being 294 fathons. In doing which we exceeded a widin, cleared and secured Elizabeth's shaft wing good timber, also Penberthy's shaft on south lode, as well as the old engine-shaft, and put in ladder roads in the host two shafts, which, including whim, chain, kibbles, and dimber, cost 160f. Before driving the adit cross-cut, north of engine-shaft, we cut open a lovel 42f fms. In length, 8 feet high by 3 feet wide, and cut a trip plat for trans-road and air solars. When we had driven 5 fms. north, and call did to Improve in value or appearance. After which we drave 28 fm. north and intersected Hosking's lode, which varies in size from 1 to 2 ft. wide—this lode is opened, east of the cross-cut. 27 fms. 1 ft. 8 in.; at times its appearance was most favourable for copper one. The adit is driven west of the cross-cut 3f fathoms, which has looked very promising for bunches of copper ore, and laid open ground that will be wrought at a east of the cross-cut. 27 Jun. 1 ft. 8 In.; at times its appearance was most favourable for copper ore. The adit is driven west of the cross-cut 31 fathoms, which has looked very promising for bunches of copper ore, and laid open ground that will be wrought at a tribute after Pryor's shaft is communicated to the adit level. The lode in the present at 18 in. which was sense the cost of driving, having, much in 18 in. which, and at present profuces copper sufficient to pay the cost of driving, having, much improved in the last 2 fms. The adit cross-cut is extended north of Hosking's lode 45 fms, and we expect 25 fms. more to drive ore we cut the lode we begun the undertaking upon, which will require little more than three months to accomplish. The adit is driving west on the in lode 35 fms.—this lode has produced a large quantity of mundic, but poor of late for tin. In driving this level there being an additional object, that of enting the south lode, the ground at present being unusually hard is the reason for not having done so, because we only calculate 2 or 3 fms. to cut ii. It, should be remembered this south lode was very productive; above and below the add level in the working of Wheal Speed; and as it will be cut into only 120 fathoms west of where it was wrought productively, we think this a fair speculation, especially as the addit subout 35 fms. deep. In consequence of Hosking's lode producing copper ore, we considered it advisable to slack Pryor's safet, and it will materially assist in the general operations, especially as the addit cross-cut is extended north of old engine-shaft 120 fms., and air not quite so good as when we began. We have a present is men on turvork, by which you will easily judge ear cost is much increased since we commenced. However, we think it would be advisable to continue the present objects with the same number of men. Our tribute department has given labour and little profit ty the adventurers, which has assisted the partwerk expenditure; and I think by exploring free diffe

ALFRED CONSOLS MINING COMPANY.

At a meeting of adventurers, held on the mine, on Tuesday last, the 14th instant, the accounts were examined and passed, showing—Copper ores sold, 7231. 4s. 2d.—By labour cost for Feb., 1971. 11s. 11d.; ditto March, 2211. 8s.; merchants' bills, 2261. 8s.; subsist, 311. 13s. 6d.; sundries, 6l. 18s. 8d.: leaving balance profit, 301. 14s. 1d.; difference between amount of call and cost for Jan., 17t. 18s. 11d.: showing balance in favour of adventurers of 57t. 13s.

BRYN-ARIAN MINING COMPANY.

BRYN-ARIAN MINING COMPANY.

At a general meeting of adventurers, held at the offices of the company on the 6th inst., the accounts were examined and passed, showing—Lead ore sold, 249. 1s. 11d.; calls, 581d. 18s. 6d. —830d. 15s. 5d.—By balance last account, 81d. 2d.; labour cost. Feb., 227d. 8s. 2d.; dlitto, March, 213d. 4s.; merchants' bills, 21d. 12s. 6d.; interest, 1d. 8s.: leaving balance in favour of adventurers, 286d. 5s. 9d. It was resolved that the resolution passed at the last general meeting, directing that the names of all holders in arrear be printed and forwarded to each shareholders, be rescinded; and, in lieu thereof, that the names of such shareholders as may be in arrear at the time of the next meeting be printed, and sent with the circular to each shareholder.—A call of 2s. 6d. per share was made. Messes. Dever, Truscott, and Way were appointed to act, in conjunction with Messers. Field and Tredimick, as a committee of management. Mr. Bousfield was appointed secretary; and it was resolved that Mr. Treleus, who had resigned his seat in the direction, be applied to by the committee for payment of his calls, and that they be empowered to take such steps to enforce the same as may be expedient.

The following report, from Capt. S. Trevethan, was read to the meeting:—

May 15.—The engine-shaft, now sinking under the 10 fm. level, is down 7 fms. 3 feet;

The following report, from Capt. S. Trevethan, was read to the meeting:—

Mop 15.—The engine-shaft, now sinking under the 10 fm. level, is down 7 fms. 3 feet; the lode is 7 ft. wide, 3 feet of which is a good mixture of ore, yielding at least 15 cwts. of ore per fm., and is improving daily. We have seen more ore in sinking the last 4 feet than since we commenced sinking below the 16 fathom level. The 10 fm. level, diving east, is in a lode 5 feet wide, with several small branches of ore, but not of much value at present. The sume level west has, for the last 6 fms., been driven on the south part of the lode, where we have had branches of ore home to the present end. We have now commenced to drive a cross-cut north, as the lode in the level above, immediately over this place, is 14 feet wide, and the north part considerably better than the south. The stope east of the engine-shaft, under the deep adit level, is looking much as usual, yielding about 15 cwts. of ore per fation. The stope under this level, west of the shaft, is in a lode 14 feet wide, and at a present will yield 14 ton of ore per fm. We expect to communicate the shaft sunk under the shallow adit level, on Pensam lode, with the workings in the deep adit level, on Pensam lode, with the workings in the deep adit level, on Bryn-arian lode, in a few duys; as soon as this is completed, we intend to remove these men to clear up the old men's workings on Pensam lode, 300 fathoms south of the present workings, which will require a whim, as the water is require for a windass to keep it; and, from all the accounts we can get, there is a large quantity of ore standing in the old workings, which the old men were obliged to abandon for want of efficient machinery, they being worked from 80 to 90 years since. We are in regular course of dressing; and, sloudd the mine continue as at present, we shall sample 20 tons of ore in four weeks from this time.

BWLCH CONSOLS MINING COMPANY.

The usual two-monthly meeting of shareholders was held at the offices of the company, George-yard, on Thursday, the 16th inst, when a further call of 2L per share (on the new shares) was made, payable on 1st June.

The following report, from Capt. Matthew Francis, was read:—

The following report, from Capt. Matthew Francis, was read:—
May 15.—We have, in letting the bargains, been anxious to keep our returns to the
quantity we calculate upon being able to do cheapest and easiest with our machinery;
and, if we can do more, we shall lose no chance of doing so. Our principal returns have
for a long time been obtained from the sides of the old workings—a source from which
we had always calculated to obtain a great deal of ove; but it is necessarily not so solid
as the middle of the lode, where the quantities of one came from during the time we
were making the greatest returns. We have now two 5 fm. levels sunk for in the eastern
part of the mine, and three in the western part of the mine, except for about 10 fations
long, west of the engine-shaft, where the ground is partly beaten away in the back of the
35 fm. level. I should think now that we have sunk, and got our kibbles down into
whole ground we shall shortly be able to raise a larger quantity of more solid ore than we
have been able to do for some time, but we have a very large quantity of carser ore still
to take away in the sides of our upper workings. The 35 east, the 35 west, the 46 east,
and the 40 west, are driving on good ore ground. The ore ground opening by the 35 east
is further east than any ore ground that we have yet opened, and gives hopes of the mine
lengthening in that direction. Everything else is much as usual.

NORTH WHEAL VOR MINING COMPANY.

NORTH WHEAL VOR MINING COMPANY.

A mesting of adventurers in this mine was held at Matthews's Commercial Hotel, Camborne, on the 6th inst., which was attended by upwards of 20 adventurers, and some of their friends. Various resolutions were passed relative to the future management of the mine, and a call was made for carrying on the operations, which are intended to be presecuted with vigour. The reports of the agents (Capts. Oats and Blewett) were of a flattering description, or to the prospects of success. Specimens of the tin, taken from the adit level, were shown, which, we understand, present the same characteristics so that of the celebrated Wheal Vor Consols. If Wheal Vor adventurer had not had too many other mines to attend to, it is probable that this mine would not have escaped their experimental notice. The sett is more than a mile in length on the course of the lodes—of which there are sayered within its limits. Its contiguity to Wheal Vor, which was the most groductive tin mine in Cornwall, or in the world, induces a confidence of success. We heartily wish them that issue.

WHEAL MARY ANN MINING COMPANY.

WHEAL MARY ANN MINING COMPANY.

WHEAL MARY ANN MINING COMPANY.

At a general meeting of adventurers, held at Liskeard, on Wednesday last, the 15th inst., the accounts for three months were examined and passed, showing—Silver-lead ores sold Jan., 12741. 12s.; ditto Feb. 16741. 6s. 3d.; ditto March, 22241. 14s. 7d.; sundries, 11. 10s. = 51721. 2s. 10d.—By labour cost and merchanta' bills for Dec., 11381. 16s. 4d.; ditto Jan., 11451. 0s. 3d.; ditto Feb., 11591. 10a. 5d.: leaving profit of 17281. 15s. 10d.; to which add balance last account, 3771. 18s. 8d. = 21061. 14s. 6d.; from which deduct dividend of 31. per share, 15361.: leaves balance in hand of 5701. 14s. 6d.

share, 1536L: leaves balance in hand of 570L 14s. 6d.

The following report was read to the meeting:—

May 15.—The 60 cross-cut is still driving west of Pollard's shaft; the branch at the 60 fm. level, north of the shaft, is 9 in. wide, producing good stones of lead. The lode in the 50 fm. level, south of the shaft, is 3 ft. wide, and worth 32, per fa.; the lode in the winze sinking under this level is 1½ ft. wide, and worth 32, per fm. The lode in the 46 fathom level, south of the shaft, is 1 ft. wide, producing good stones of lead; the lode in the winze staking under this level is 2ft. wide, and worth 42, per fm. The lode in 'the 30 fm. level, south of the shaft, is 1½ ft. wide, and worth 42, per fm. The lode in 'the south 44 in under the 60 fm. level, where the lode is 4ft. wide, and worth 132, per fm. The lode in the 60 fm. level, south of the shaft, is 3 ft. wide, and worth 152, per fm. The lode in the 60 fm. level, south of the shaft, is 3 ft. wide, and worth 152, per fm. The lode in the 60 fm. level, south of the shaft, is 3 ft. wide, and worth 152, per fm. The stopes generally throughout the mine are usually productive. We sampled on Saturday last a parcel of lead orce, computed 99 tons. In conclusion, I begt to say our prospects are very good, and that our profits will be greater for the ensuing three months than for the last.

WHEAL TRELAWNY MINING COMPANY.

WHEAL TRELAWNI SHINING COMPANI.

At a general meeting of adventurers, held at Liskeard, on Tuesday Inst, the 14th inst., the accounts for three months were examined and passed, showing —Silver-lead ores sold in Feb., 2063. 6s. 2d.; ditto March, 2071. 4s. 6d.; ditto April, 2282. 211s. 10d.; Trehane adventurers, for use of engine, 82. 10s.—6591. 12s. 6d.—By labour cost and merchants' bills, Dec., 1554. 8s.; ditto Jan, 1566. 17s. 10d.; ditto Feb., 1554. 10s. 2d.; leaving profit of 1826. 1s. 6d.; to which add balance, last account, 691. 2s. 11d.—2517. 4s. 5d.; from which deduct dividend, 6f. per share (15602.), leaves balance in hand, 957. 4s. 5d.

The following reports are detailed to the meeting.

The following report was read to the meeting:-

The following report was read to the meeting:—

May 14.—At Phillips's shaft, in the 82 north, the lode is 3 ft. wide, worth 9t. per fm. The 82 south is anspended for the present, and the men put to rise against a winze sinking from the level above. In the 72 south the lode is 2\(\frac{1}{2}\) ft.—wide, worth 3t, per fm. In the winze sinking under this level the lode is 1\(\frac{1}{2}\) ft.—wide, worth 3t, per fm. In the winze sinking under this level the lode is 1\(\frac{1}{2}\) ft.—wide, worth 3t, per fm. In the 62s north the lode is 3\(\frac{1}{2}\) ft. wide, worth 15t. per fm. In the 62s north the lode is 3\(\frac{1}{2}\) ft. wide, worth 15t. per fm. In the 62s and ft. worth 7t. per fm. In the 82 south the lode is 3\(\frac{1}{2}\) ft. wide, worth 11t. per fm. In the 72 north the lode is 5\(\frac{1}{2}\) ft. wide, worth 12t. per fm. We are sinking a winze in the bottom of this level in killas, to ventilate the level below. At the north mine, in the winze sinking is the bottom of the 5t. north of Trehane, the lode is 1\(\frac{1}{2}\) ft. wide, worth 3t. per fm. In the 50 north the lode is 2\(\frac{1}{2}\) ft. wide, worth 3t. per fm. In the 50 north the lode is 2\(\frac{1}{2}\) ft. wide, worth 3t. per fm. In the 50 north the lode is 2\(\frac{1}{2}\) ft. wide, worth 3t. per fm. In the 50 north the lode is 2\(\frac{1}{2}\) ft. wide, worth 3t. per fm.

MINING NOTABILIA.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

BODMIN CONSOLS.—Mr. Binks, of Poplar, has made analyses of the galena from those mines, operating on such a sample of the ores as will fairly represent the average value of the unines, and not upon any merely picked, or eslected, portion. The difference of the two following assays arises from a greater adherent portion of extraneous matter on one than on the other:—Samples from Hext's Land, lead, 65°2 per cent.; silver, 16 oz. 3 dwts. per ton of ore.—Samples from Pyo's Land, lead, 67°2 per cent.; silver, 16 oz. 3 dwts. per ton of ore. The agent writes—"We have made a good discovery in our south end. At the 13 fm. level, this day (13th May), the lode looks exceedingly well, with arseniate and carbonate of lead—large stones. I have no doubt we are not far from a large body of mineral. The south add thous well, yielding large stones of lead."

MINERAL COURT.—We are all in high spirits here, in consequence of improvements just discovered. In two pitches, east and west of new shaft, the tributers are breaking ors containing 16 out of 20 parts black: in, and expect to get 30t, per man for the month's bargini. In the 30 fm. level they have cut the lods seen in the 20; we find it three times as rich as it was above, and though they have got through 3f, think it only half-way.

TRESPILLE MINE.—Being at Lewanick, and having an hour to spare, I went

only half-way.

TRECTILE MINE.—Being at Lewanick, and having an hour to spare, I went to see the Treville Lead and Silver Mine, and I am happy to say the present prospect fully bear out the former reports of this mine, they having two fine lodes, producing rich silver-lead orces, which they appear to be working in a very spirited manner, having two ands driving, and an engine-shaft sinking to cut the lode at a greater depth, where I have no doubt but large quantities of ore will be obtained.

WHEAL SHEBA (STOKE CLAMSLAND).—This very promising copper mine is about to be set to work—in fact, there are already men at work in the aditievel on a lod 7 ft. wide, impregnated with copper throughout. The workings will shortly be carried on with spirit; and it is the opinion of all who have seen it, that it will ere long become a very profitable investment.

ROCHE BOCK (TIN).—The share list of this company was closed on Wednesday last, and we understand an early meeting of the adventurers will take place, at which William Eales, Eeq. of Fanchurch-street, will take the chair—that gentleman having consented to act as chairman of the company, from which we augur well of the affair.

Migal Jane.—The proprietor of this lately-discovered rich silver-lead mine now in London, and is endeavouring to form a company, to be divided into

1024 shares.

WHEAL VINCENT.—Capt. John Spargo having resigned the agency of this mine, it has been placed temporarily in the care of Capt. Reynolds. A new lift (10 fms.) of 13-inch pumps has been purchased from Mr. Thomas, of Charlestown Foundry, at a very reasonable price, and is to be delivered on the mine in 14 days. This will apperace the present lift in engine shaft, which is too small. Some good work is being taken out of the new 10 fm. shaft on the south lode. Twenty-two miners and workmen constitute the force at present In Wheat Vincent, and it is hoped that, when the new lift is fixed, and an experienced captain placed on the mine, the development of the lodes, and bringing tin to market, will be in accordance with the real interests of the adventurers. Mr. Murray proposes to visit the mine in about a week, to determine on the most efficient mode of working in future.

when the working in future.

Wheat Harmier (in the vicinity of South Dolcoath, Condurrow, South Roseker, and other flourishing mines in the Camborne district) is about to be worked by a respectable and influential Company. The lodes are continuations of the veins in that district, which have proved so profitable to the several adventures. The mine is divided into 256 shares, and is under the management of Captain Trodhinick, formerly of East Wheat Crofty, who has been somotione mining in Wales, but now returned to Cornwall. Mining Adventures.—We are glad to be informed that the poor labouring miners of Perranarworthal, after suffering severely from want of employment, are likely again to find work. The old mine, formerly called Perran Downs, but now South United, is again set to work by a spirited company of adventurers. The deep adit taken up from Perranwharf is again nearly cleared into the old mine, and from the number of tin and copper lodes contained in this extensive sett, and the fine stones of tin to be found in the old workings, with the beautiful gossan on the back of the copper lode, there is every reason to suppose that great profits will shortly be realised. The inhabitants of this parish wish the adventurers abundant success.

[From the Plymouth Journal.]

Wheat Franco.—In the 2 m. level, east of the engine-shaft, the lode is 4 ft. wide, composed of can, mundic, and yellow ore—a very kindly lode. In the 47, east of the engine-shaft, a cross-cut is being driven south, to ascertain whether or not we have been driving on the main part of the lode. In the 32 fm. level we are sinking a winze to the 47 fm. level; there is in the bottom of this winze a good orey lode, from 3 to 4 ft. wide, worth all of 10 ft. wide, worth all of 10 ft. Driving whether the shall sample about 110 tons of ore this month.

PLYMOUTH WHEAT ENGLAND.—There is no alteration here. About 3 tons of tin will-be raised this month.

we raised this month.

TAVISTOCK CONSOLS.—We have cut into the lode 60 fms. east of the engine-shaft; it is fi. 6 in. wide in the back, and about 5 ft. in. the bottom of the level; and composed in he south part, for 2 ft., of spar of a very promising character; the north part is mundle and peach. I never saw a finer lode, and I feel confident that this must make a good nine in depth, but we must have a steam-engine.

MIRGAL PROTERMEN (South Sydenham).—There is a fine pile of rich lead ore at grass (about 6 tons). The adit end is looking very well, and producing lead; there are three pitches at work above the adit—one at 6s. in 1s., and the other two at 16s. in 1s. In the shode pit, to the south of the engine-shaft, there is a remarkably fine gossan lode, carrying spots of copper, about 3 fms. from surface.

CHARGE OF CLAIMING ADVENTURERS' ORRS.—In the Stannaries Court, last week, an action was brought by two tributers, named Allen and Trelease, in Wheal Golden Mine, against the adventurers, for tribute on ore raised by them in December, January and February last. The defence for the action was, that the plaintiffs had, in fact, been guilty of kitting, and ought to have been tried for that offence, as they had contrived to get their pile increased by about 6 cwts, of ore which had already been placed to adventurers' pile. The Vice-Warden set on one side the question as to the charge against the plaintiffs of kitting, as such an act amounted to felony; but was clearly of opinion that the 6 cwts, of dressed ore which had been deducted from plaintiff's heap had been unduly placed there, and was the property of defendants; he did not express his opinion as to who placed it there, as it was out of the question, and the case did not require it. Another reason why he decided against the plaintiffs was, because they had not acted with good faith towards defendants, and had not, therefore, entitled themselves to the protection of the court. He ordered the petition to be dismissed with costs.

Dr. ADAM CLABKE ON THE CONSISH MINERS.—At the late meeting of the CHARGE OF CLAIMING ADVENTURERS' ORES. - In the Stannaries Court, last

patient to be dismissed with costs.

Dr. Adam Clarke on the Cornish Miners.—At the late meeting of the Expelled Wesleyan Ministers at Penzance, the Rev. J. Everett read the following extract of a letter which he had just received from a friend, in which the estimate which the late Dr. Adam Clarke had formed of the character of the Cornish miners was referred to:—"I find, my dear friend (said the writer) that you are expected in the One-and-All county—one I have never seen, except in the day-dreams of my earnest regard and affectionate associations from my youth up, and that from the great regard dear Dr. Clarke had for it, and with which he inspired me. When we meet I will 'put you to the question' whether, as a more disinterested person, Cornwall really is all that Adam Clarke, Samuel Drew, and Samuel Dunn, have taught me to believe it is. Dr. Clarke said to me: 'Those Cornishmen work in the midst of God's wonders; there is comparatively little of man in their practical operations. They are much alone, and their lives are lives of fact; and hence they are hard-thinking men, practical men. They work in the wonders of nature, beneath man's dominion of all but power to work; hence they are thinking men, and their theory is the theory of observation—the result of the laws of nature, and every tool they use is formed according to those laws of nature. Certain tools for certain metals; and the nice constitution of each metal the miner knows as well as his master; they work by thought, and thinking work.' So Adam Clarke taught me. Is the testimony still borne out? I should like to hear you say—yes, standing on St. Michael's Mount. That, to me, would be the true sublime."

An American correspondent writes—"A new mode of generating steam has

An American correspondent writes—"A new mode of generating steam has been put into successful operation in Virginia—a mode that avoids completely all risk of an explosion. No boiler is used, the steam is raised by means of a small jet of cold water injected upon a large plug of iron fixed in the furnace. I will forward a description, as soon as I can obtain particulars."

EXPERIMENTS IN FALMOUTH HARBOUR.—One day last week several experiments were made with Copeland's safety blasting cartridges for submarine purposes, fully showing their utility and certainty of explosion. The first, a cartridge, with 24 ft. of fuse, was cast into the soa to the depth of 26 ft., with weights attached to sink it. After a lapse of 10 min. 15 sec. (the time occupied in burning the fuse to the charge) it exploded, throwing up a jet of water, the effect of which was very beautiful. The second, with the same length of fuse, was cast into 6 ft. of water, the same length of time taken to burn the fuse, when it exploded; the effect, owing to the water being so shallow, lost much of the imposing character of the first. The above took place in the presence of several gentlemen, who all expressed their satisfaction, and the pleasure afforded them by witnessing these useful tests.

A MONTER BALLOON prenaring at Valverda, halfa leaves from the capital.

A Monster Balloon preparing at Valverde, half a league from the capital-by Senor Montemayor, is a subject of conversation in the fashionable circles. A most marvellous description is given by those who have been to see it. It is said that several hundred persons have been for eight months employed in its construction. M. Montemayor proposes to bring his balloon to Madrid to exhibit it to the Queen; and when her Majesty's permission is obtained, he in-tends to proceed to London, where he hopes to arrive the same day.

tends to proceed to London, where he hopes to arrive the same day.

Marstro.—Another furnace was put in blast on Saturday last, at the Llynfi fron-Works, making the fourth blast furnace at present in full operation at these works.—Swansea Herald.

ABREDEEN.—On Theesday the preamble of this company's Bill, to enable them to raise 150,000L, and to repeal the Amalgamation Act with the Great North of Scotland Railway, was passed by the committee.

Belfast to Newtownards, 12½ miles, has been opened for public traffic.

Lancashire and Yorkshire Railway.—The last section of the branch line to Bradford has been opened; it extends three miles from Low Moor to Bradford. The first train passed over that distance in shout six minutes. This branch shortens the former distance by railway from Manchester to Bradford very considerably. The great station forming the Liverpool terminus of this railway has also been opened. This capacious and elegant structure adds another ornament to the town.

Cultivation of Railway Embankments.—A horticultural firm at Mal-

another ornament to the town.

Cultivation of Railway Embankments.—A horticultural firm at Maldon makes the following communication on this subject:—"It has occurred to us that vegetable marrows, goards, pompions, and even encumbers (if really useful), raight be profitably califyated on railway embankments; in addition to some gain, such plants would produce an agreeable appearance on the embankments, and there can be no doubt that on south aspects, at least, they night be agrown in perfection. They should be planted on well-cultivated grounds, about a yard apart, on the summit of the bunks, and allowed to grow with their heads downwards." The ground should be prepared for their reception in the middle of May.

At the averaged queries of the Greet Western.

At the special meeting of the Great Western Company, which has been looked with so much interest for the last two or three weeks, the recommendations of the discretors with regard to salaries, &c., as against those of the committee of consultation, ere approved by a majority of 1692 to 812.

SOUTH WALES RAILWAY.—An experimental excursion by some of the directors and their friends, with Mr. Brunel, the ougineer, took place from Chenstowr Neath and back. The trip was highly satisfactory; and the return (distance, 68 miles was ran over in three hours, including four stoppages. On one portion of the line the grain ran at the rate of 50 miles per hour.

ACCIDENTS—(Continued).

Durham.—G. Patierson, aged 13, was killed at the Old Heston Pit by the coal waggons knocking him down and passing over him.

Penpdarran.—Isaac Davies. a haulier, aged 21, while proceeding home in a state of incostession on Monday night, fell into one of the pits, and was immediately killed. When liscovered, he presented a shocking spectacle, being literally dashed to pieces.—Cambrian.

Doctais.—A poor woman was drawn into a spindle-wheel at these works, and learfully mangled before she could be extricated.

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Current Brices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Sat Bank Stock, Swer Cent., 206
3 per Cent. Reduced Ann., 94\$ \$ 4 \$ 3 per Cent. Conests Ann., 95\$ 5 \$ 4
3 per Cent. Ann., 964 6 5 \$ 6\$ \$ 1
Long Anualties, 8 \$ 1
Long Anualties, 8 \$ 4
3 per Cent. Con, for 12th Jure 95\$ 8 \$ 2
8 per Cent. Con, for 12th Jure 95\$ 8 \$ 2
8 per Cent. Con, for 12th Jure 95\$ 8 \$ 2
8 per Cent. Sills, 1003., 1\$ d. 678 69 pm. Belgian, 4‡ per Cout., 86‡ ‡
Burch, 3‡ per Cout., 88‡ ‡
Brasilian, 5 per Cout., 88
Chilian, 6 per Cout., 88
Chilian, 6 per Cout., 88
Chilian, 6 per Cout., 92
Mexican 5 per Cont., 92
Russian, 4‡ per Cont., 93‡ ‡
Ditto 3 per Cout., 37‡ 7

MINES. - Although the share market has not been brisk during the week, we find that an average amount of business has been transacted

From a reported improvement in West Seton, an inquiry for shares has taken place. Botallack, West Tolgus, South Tolgus, Trelawny, and Mary Ann have been in request; and there has been a tolerable demand for dividend-paying mines.

Devon Great Consols have been much inquired for during the week; but we are not advised of many transactions at the present advanced price. In another column will be found the directors' report (as promised last week), to make any comment thereon would be quite superfluous. The detailed and interesting account of operations in the respective mines, the vast amount of produce and ore ground developed or laid open, the regularity of dividends, and the excellent system of management adopted, places Devon Great Consols in the most important position, as to power and influence now extant. and influence now extant.

At the Trelawny quarterly account, a dividend of 1500l. was declared, being 6l. per share for the months of December, January, and February, carrying a balance of 957l. 4s. 5d. to credit of next account. There were 417 tons 2 cwts. 2 qrs. of silver-lead ores sold, realising 6419l. 2s. 6d. The prospects of the mine continue highly satisfactory, the ends and stopes being equally productive as represented at the last meeting.

At Wheal Mary Ann account meeting, for the quarter ending February, the financial statement showed a profit of 1728l. 15s. 10d., and a dividend of 3l. per share was delared, leaving a balance of 570l. 14s. 6d. to credit of next account, being an excess of 192l. 15s 10d. over the last balance. The mine is in a very improved and prosperous position.

At a general meeting of St. Aubyn and Grylls Company, the accounts from the commencement of operations were audited, and balance of 116l. 1s, found against the company. A call of 30s, per share was deemed necessary. The agent's report was read, showing the extent of operations which had been performed, and giving great encouragement as to future results.

necessary. The agent's report was read, showing the extent of operations which had been performed, and giving great encouragement as to future results.

At a meeting of adventurers in the Consolidated Mines, held at the account-house, on Wednesslay last, the accounts were produced, showing—Balance last account, \$111. Ibs. \$d.; ores sold (less dues), 66441. Ibs. 6d. =74564. I4s. 2d.—To costs and merchants' bills, for March and April, 66196. S. 11d.—leaving balance in favour of adventurers, 8374. 7s. 3d.

At Bwich Consols bi-monthly meeting, the final call of 2d. per share on the new shares was made. The mine is in a productive position, and promises well for an increase in returns.

At the annual meeting of West Wheal Jewel adventurers, the financial statement showed the assets at 17176. 5s. 3d.; and liabilities, 651d. 1s. 7d.—consequently, a balance of 10666. 3s. 8d. in tavour of adventurers. No important improvement, since the last meeting, had to be noticed; and, in consequence of an increased hardness of the ground, the Tolcarne tin lode had not been intersected by the 57 fathom cross-cut, which is in course of driving, and is looked to with considerable interest, inasmuch as it will take that lode 27 fins. deeper. The mine appears to be worked with studious economy; the expenditure for the year exceeding the income by 400. only. At West Wheal Jewel copper lode, some improvements are anticipated, as they are now approaching some interesting points.

At the Alfred Consols meeting, the accounts showed that copper ore had been sold in two months, 7234. 4s. 2d.—giving a profit of 394. 14s. 1d., and leaving a balance in hand of 17t. 18s. 11d.

At the Bryn-arian meeting, the accounts showed a balance in favour of adventurers, 286t. 5s. 9d. The report was encouraging; the lode in the engine-shaft, 7 ft. wide—3 ft. of which good mixture of ore. It was intended to clear up the old Pencarn workings, where it is said large deposits were left by the old men 90 years since, in consequence of the water.

At a meeting of a

We understand the lode cut 3½ fms. below the adit in West Tolgus improves every day. The last advices stated its produce at 1½ tons of good ore per fathom.

We learn that all the shares in Roche Rock Tin Mine have been sub-

We learn that all the shares in Roche Rock Tin Mine have been sub-scribed for, and, from present prospects, they are likely to realise a pre-mium—which, indeed, is already demanded.

minn—which, indeed, is already demanded.

Shares in the following mines have changed hands during the week:—
Devon Great Consols, South Tolgus, Treviskey and Barrier, Trelawny,
Trehane, Tincroft, Heiguston Down, Alfred Consols, Drake Walls, South
Plain Wood, Mary Ann, Grambler and St. Aubyn, West Tolgus, Kirkcudbright, Pendarves, Esgair Llee, Gustavus, Tremayne, North Buller,
Stray Park, West Providence, Penzance Consols, Wheal Sarah, Wheal
Vincent, Lamherooe Wheal Maria, East Buller, Treleigh Consols, Bedford,
South Tamar, &c.

The inquiry for shares in Foreign Mines has been rather limited, and but little business transacted. United Mexican, Cobre, Sautiago, and Linares have been done, and a few bargains in St. John del Rey, Copaipo, Imperial and National Brazilian, the Barossa Range, and Australian. The accounts from the United Mexican Mines, received by way of New York, will be read with satisfaction by those interested in that concern. It will be seen that the mine of Rayas had more than doubled its produce during the month, and the new mines prosecuted with vigour and success; and, in addition thereto, that a remittance is promised to be forwarded by the May conducta, to meet the cost of quicksalver required by the manager, and to augment the home funds.

the May conducta, to meet the cost of quicksilver required by the manager, and to augment the home funds.

The Alten Mining Company have received advices to the 20th of April, giving the estimated produce for March at 150 tons of copper ore. The report contains nothing new or important, but, from general appearances, the next may be anticipated with greater satisfaction.

The Linares report is to the 6th May, advising the chartering of a vessel for the conveyance of ore to England. About 55 tons had been carted to Seville, and 34 tons more were ready. The water has been drained to the 45 fm. level, and the lode found highly productive.

A deputation from the promoters of the Governor and Company of Copper Mines Bill, consisting of Mr. William Gladstone, Mr. Josiah Hoare, Mr. Alex. Beattle, Mr. W. Gilbertson, Mr. Young (solicitor), and Mr. Clabon (agent for the bill), had an interview with the Right Hon. H. Labouchere, yesterday, at the office of the Board of Trade.

BURGOYNE MINES,—These mines are in the immediate locality of the celebrated Ecton Mines, which produced such vast riches to the family of the Dukcof Davonshire. The mines have paid upwards of 150,0001, proft, and are being prosecuted with vigour, although it must be confessed that if more capital were employed the results would be more satisfactory. The extent of the sett is a mile and a half on the van of the locks, half a mile in width, and held under lease at 1-12 royalty. North of the sett is the celebrated Ecton Mine, producing copper ore in limestone—a most unusual occurrence, but which, in this instance, has yielded upwards of 1,000,000, sterling in the way of profit beyond the outlay incurred. The lodes in the Ecton Mines undoubtedly past through the Clayton sett, and hence every expectation may be entertained that equal results will arise from the prosecution of the workings. From the plans and diagrams laid before us, it would appear that, although the present adventurers have expended upwards of 10,0004, they have not directed their attention to the side or parallel lodes, while the addit levels driven extend nearly a mile in length. To effect the object in view at the present moment—that of unwatering parallel lodes by cross-cutting from the adit, instituted as it is by the reports of eminent mining engineers—a further sum of 5000% will be necessary; but whether such will be subscribed by the parties, or otherwise, we are not in a pesition to say.

COALS FOR SOUTH AUSTRALIA AND INDIA.—The agent for the Crown Colonies has given notice that he will receive tenders on or before the lat June next, for 1000 tons of Welsh coat, to be delivered free of charge at Port Adelaide. On Wednesday next, the 23d inst, the finance committee of the East India Company will be ready to receive tenders for 5000 tons of Hartley's coal, to be delivered at Bombay, for the use of the company stempers.

PRICES OF MINING SHARES BRITISH MINES. BRITISH MINES-20 27 9 32 15 65 7 70 665 27 10 11 FOREIGN MINES.

15000 Asterian Mining Company 14\$. 2\frac{1}{2}\$ 2\frac{1}{2}\$ 15000 Asterian Mining Co. 15 . —
20000 Australian . 4 . 3\frac{1}{2}\$ 40000 Barussa lange . ||\frac{1}{2}\$. ||\frac{1}{2}\$ 12000 Gobra Copper Co. . 40 . 3\frac{3}{2}\$ 38

RAILWAY TRAFFIC RETURNS.

Names of Raliways.		ngth.	Present ac-			Traffic.	
is the first world to difficult the other passes.	1850	1819	tual cost.	p. share	Div.	1850	1849
Aberdeen	72	16	1,000,347	74	-	£ 1198	€ 570
Belfast and Ballymena	372	374	491,159	174	5	566	519
Birkenhead, Lancashire,& Chesh.	15	15	960,653	182	5	2733	940
Bolton, Blackburn, & West Yorksh.	14	14	968,112	51	1	-100	417
Bristol and Exeter	844	754	2,924,661	62	34	3873	4241
Caledonian	160	141	5,149,320	78	3	6074	4961
Chester and Holyhead	941	81	3,581,587	7	4	2532	1307
Dublin and Belfast	22	-	0,101,100	120	12	279	274
Dublin and Drogheda	53	353	778,565	27 4	-	916	880
Dublin and Kingstown	78	73	849,786		6	768	932
Dandee, Perth, & Aberdeen June.	474	478	179,775	74 8	3	555	528
East Anglian (Lynn to Ely)	671	67	1,308,194			733	621
East Lancashire	754	754	3,192,759	62	- 5	3270	2948
Eastern Counties and Norfolk	322	322	13,139,156	7	-	14643	14410
Eastern Union	95	504	1,782,702	-44	-	2089	1238
Edinburgh and Glasgow	893	684	2,644,378	26 #	4	3849	3983
Edinburgh and Northern	70	70	2,024,082	51 4	2	2113	2170
Glasgew, Paisley, and Ayr	1021	74	1,996,301	434 44	8	2912	2712
Glasgow, Paisley, & Greenwek	23	23	866,074	10# 11	24	1008	987
Gt. Northern & East Lincolnshire	143	110	5,406,157	64	5	3587	1969
Gt. Southern & Western, Ireland	1881	1101	3,890,228	31	Gŧ	4256	3872
Great Western	2301	2061	13,189,565	523	4	15452	17892
Lancaster and Carlisle	90	90	1,476,808	.50	4	3539	2312
Lancashire and Yorkshire	224	1964	10,818,478	342	3	13137	11952
London and North Western	4784	428	25,286,876	1011	5	46959	40181
London and Blackwall	- 68	4	1,363,529	14000	1-12	754	753
London, Brighton, & South Coast	1714	1624	7,103,102	794 80	44	8041	8566
London and South-Western	242	194	7,490,688	60	34	9170	9448
Londonderry and Enniskillen	141	144	171,026	16	1000	174	156
Manchester, Shefflold, & Lincolnsh.	1604	914	2,078,138	131	8	5317	3408
Midland Company	4924	4634	14,042,310	324	044	21271	20607
Midland Great Western (Irish)	50	364	362,978	23 1	41	1316	1161
Monklands	36		486,245	1900	6	-	746
North British	135	110	2.80C.74T	. 78	3	. 3188	2890
Scottish Central	451	454	1,448,969	131	5	1338	1233
Scottish Midland Junction	844	32	871.877	74	-	892	17-1
Shrowsbury and Chester	48	48	1,161,840	74 2	1	1690	1369
Shropshire Union	30	-	100	24 24	-	457	-
South Devon	57#	572	1,951,933	9 6 10	5	1780	1912
South-Kastern	234	1654	8,116,914	134	31	9499	7940
Tail Vale	38	38	907,398	lens.	64	2067	2078
Ulster	36	36	675,000	457	121	828	787
West Cornwall	18	18	209,386	TP/06	-	301	289
Whitehaven Junction	12	12	171,989	. 94	1	129	202
York, Newcastle, & Berwick	2901	269	5,251,999	121	24	12897	11851
Vork and Morth Midland	960	080	4 975 699	164		6999	6964

LATEST CURRENT PRICES OF METALS

LONDON, A	FAY 17, 1850.
ENGLISH IRON. 6	Tile.

REMARKS.—The copper market is easy at present quotations. Bar-iron is very dull; there are buyers, however, at 4f. 10s., free on board in Wales, but without sellers. Scotch pig-iron, after considerable excitenent, is quiet at the quotations: a saic was made yesterday at 45s. 6f. Swedist iron is selling at 11f. 1 s. to 11f. 15s., with but a limited demand. In speller, notwithstanding the large operations of last week, there are no sales to report. Banca tin has been solid at 7fd, and 72f.; Brildsh is without demand, and, at present rates, a fall is anticipated. The plates are in active request.

LiveRPOOL, May 14.—The excitement in pig from, which we noticed in our last report, has, we think, spent itself, and to-day we have large surcels affered without meeting with a buyer. This is just what was to be anticipated from such an unwarrantable job, and those who have been induced to buy, will likely have leisure to repent. The show of reducing the make one-third, is only on a par with other attempts of a similar character to bolster the market, and will soon come out in its true colours. We look for a rather raidd decline now, and shall be much mistaken if a fortnight does not see them again at 42s, 6d. In manufactured iron there is a little more activity, but better prices are not obtainable. The orders from America, by the Aliantic and Europa, were unusually light, and the accounts very dull. Tin-plaies are more inquired for, but they are easily obtainable at former prices.

GLASGOW, MAY 16.—The strike amongst the uniners, and the reduction in the make of pig-iron, have caused more inquiry after the article, and a good business has been done tan advance in price. The price to-day may be quoted at 45s. 6d. for mixed Nos., cash.

Comparative Shipments of Pig-Iron, from	1st January to 30th April: -
Tons Decrease	135,051 98,254
Total	135,051 135,051
Comparative Shipments to United St. 1848.	1849. 1850.
Tons 20,333	28,494 12,736

LEAD ORES.

Ticketings for about 90 tons Foxdale Lead Ore.

Douglas, Isle of Man, May 11.

Bulders.	Price	per	Ton.	_
Walker, Parker, and Co. (Purchasers) - Dee Bank	£12	11	0	
Mather and CoBagillt	. 12	5	0	
Newton, Keates, and CoBagilit				
Combmartin Smelting Co.—Barostable				
Sims, Willyams, Neville, and CoLlanelly	. 11	11	0	
Pontifex and Wood-Newcastle	. 11	. 5	0	
Tamar Smelting Co.—Beeralston	. 11	1	6 .	
Thomas Somers-Bristol	. 11	0	0	

TICKETINGS FOR 100 TONS (20 cwts.) NEWTONARDS LEAD ORE.

Douglas, Isle of Man, Man 15.

Budlers.	Price	per	Ton.
Combinartia and North Devon Smelting Co	 £11	0	6
Newton, Keates, and Co	 . 10	19	6
Tamar Smelting Company	 . 10		
Sims, Willyams, Nevill, and Co	 10		0
The state of the s			-
 Sold at Doolly on the 18th Man			

Mine.				Tins.		Price	per	Ton.	Purchasers. Newton, Kentes, & Co.
Cairnsmore		 		40		. £10	15	6	Newton, Kentes, & Co.
Rhoswiddol		 		20		. 10	13	0	ditto
Dyfugwm		 		34		. 10	0	0	Mather & Co.
ditto	****	 		. 11		. 10	8	0	ditto
				Sol	d at the	e Min	e.		
East Wheal I	Rose .	 		57		£13	17	6	Newton, Keates, & Co.
ditto		 		50		. 13	16	0	R. Michell & Son.
ditto	****	 		38		. 13	15	6	Tamar Company.
				Sol	d in L	ondox	1.		
Tamar		 		. 84		£21	0	6	T. Somers.
Holmbush		 		30		16	1	6	Tamar Company.
A COLOR			-						

COPPER ORES.

NO SALE on Thursday last, May 16.

Copper ores for sale on Thursday last, May 16.

Copper ores for sale on Thursday last, Alay 16.

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Marta, Wheal Friendship 232—Poldice 172—Bedford United Mines 119—Wheal Maidea 35—Carthew Consols 19—Polgooth 18

Wheal Jewel 14—Wheal Penhale 14.—Total, 2619 tons.

Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and Parcels.—Consols 870—United Mines 821—Treviskey 311—Far Consols 347—Treaven 325

—Perran St. George 316—South Caradon 286—South Tolgus 183—Trettellan 171—Wh.

Comfort 149—Treleight Consols 110—Wheal Henry 85—Wheal Ellen 60—Outes's Ore 23

—Grambler and St. Aubyn 16—Lanarth 5—Total, 4276 tons.

COPPER ORES At SWANSEA, for sale May 23.—Cobre 86, ditto 77, ditto 72, ditto 67, ditto 61, ditto 60, ditto 58, ditto 615, ditto 69, ditto 50, ditto 54, ditto 65, ditto 66, ditto 66, ditto 54—Cuba 80, ditto 79, ditto 78, ditto 74, ditto 72, ditto 42—Berebayen 128, ditto 119—Coplapo 67, ditto 58, ditto 53—Cabral 50, ditto 37—Dudley Slag 35, ditto 25, ditto 7, ditto 5—Cronebane 4—Tigrony 4—Gibraltar 4.—Total tons 2198.

MINING APPOINTMENTS DURING MAY.

- MINING APPOINTMENTS DURING MAY.

 19. Pay-day at Consols, United, Comfort, Seton, West-Buller. Fowey Consols setting 20. Fowey Consols sampling; Treviskey account.

 21. Grofty account.

 22. North Fool and other mines sampling. South Tolgus mine account.

 23. Ticketing at Truns. Devon Consols and other mines.

 24. Pay at North Pool.

 25. Pay at Fowey Consols, Treviskey, Agar and West Seton, and Tywarnhayle.

 27. Par Consols sampling.

 28. Tresavean and Trethellan account on the mine.

 29. Carn Brea and other mines sampling.

COAL MARKET, LONDON.

PAIGE OF COALS PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Carr's Hartley 14 3—East Addrs Main 12—Old Tanfield 12 3—West Hartley 13 9 to 14—Wylam 13 6—Wall's End Brown 12 6—Hidds 13—Percy 12 9—Eden Main 14 9—Bell 14 6—Hetton 16 3—Lambton 15 9—Russell's Hetton 16 9—Caradoc 15 —Denison 13 9—South Hartlepool 15—South Kelloe 14 6—Thornley 15—Adels/de Tees 15 6—South Durham 14 3—St. Helen's Tees 13 6—Birchgrove Gragola 20—Cowpen Hartley 14 3—Derwentwater Hartley 14 3—Ebbw Vale 29—Nixon's Merthyr and Cardiff 20.—Ships at Market, 30; sold, 25.

WEDNESDAY. Bell V. Merther 15 0. Robbit 14 0. Robbit 14 0. Robbit 15 0.

diff 29.—Ships at Market, 30; sold, 25.

WEDNESDAY.—Bate's West Hartley 13 9—Buddle's West Hartley 14—Carr's Hartley 14—Chester Main 13—Davison's West Hartley 14—East Adairs Main 12—Hastings Hartley 14—Holywell 14 9—North Percy Hartley 13 9—Od Tanfield 12 3—Ravensworth West Hartley 13 9—Markeld Moor 13—Tanfield Moor Bate's 13—Townely 13 6—West Hartley 13 6—East Wylam 12 6—Wylam 13 6—Wall's-End Acorn Close 14 3—Brown 12 6—Bevicke and Co. 13 9—Brown's Gas 12—Bensham 13—Gosgarth 13 9—Hedley 14 4—West Kellos 14 6—Whitworth 12 9—Adelaide Tees 15 6—Maclean's Tees 13—Seymon's Tees 14—St. Helon's Tees 13 3—Tees 16 3—Cowpen Hartley 14—Ebbw Vale 19—Hartley 13 and 13 3—Howard's West Hartley Netherton 14—Nixon's Merthys and Cardiff 20—Sidney's Hartley 14 3.—Ships at market, 191; sold, 135.

FRIDAY—Bate's West Hartley 13 6—Raddley West Hartley 13 6—Corn's Hartley 13 6—Raddley West Hartley 13 6—West Martley 13 6—West Martley 13 6—West Hartley 13 6—Raddley West Hartley 13 6—Raddley West Hartley 13 6—Raddley West Hartley 13 6—West 14 6—We

Giff 20—Sidney's Hariley 14 3.—Ships at market, 191; sold, 135.

FRIDAY.—Bate's West Hariley 13 6—Batchle's West Hartley 13 6—Carr's Hartley 13 6—Carr's Hartley 13 6—Chester Main 13 3—Davison's West Hartley 14—East Adairs Main 11 6—Hastings Hartley 13 6—South Pereyt Hartley 13 6—South Pereyt Hartley 13 6—South Pereyt Hartley 13 6—South Pereyth 12 3—Tanfield Moor Bute's 13—Towney 13—East Wylam 12 6—Wylam 13 9—Wall's-End Brown 12—Bewicke and Co: 14—Beneliam 12 9—Kiln Park 14—Gosforth 14—Original Gibson 13 9—Riddell 13 6—Eden Main 14 9—Mail's 4 and 15—Lambton Priurose 15—Belmont 14 9—Braddyll 15 3—Grange 13 9—Helton 16 3—Haswell 16 6—Jonassolm 13—Eambton 14 9—Eumley 14 6—Russell's Hetton 15 9—Bichmund 14 3—Caradoe 13—Kellon 15 3—South Bartlepool 15—Thornley 13—Brown's Deanery 14 3—Machesin's Tees 13—South Durham 14—Tees 16 3—Cowpen Hartley 13 6—Derwentwater Hartley 13 6—Ebbw Vale 19—Hartley 12 6 and 13 3—Nixon's Merthyr and Cardin' 20—Sidney's Hartley 14,—Ships at market, 112; sold, 79.

NOTICES TO CORRESPONDENTS.

SUBTERBANEOUS SPRINGS.—Siz: Will you oblige by giving place to this observation, a the rejoinders sought thereby?—f. e.: the cause of springs rising before much reforms on the size of a spring was pumped out, and on the 3d inst. it had ris 6 inches above the level of the lat.—G. T. W.: Survey, May 8.

H. J." (Dudley).—The old ale gallon contained 282 cubic inches, and the old wine gallon 231 inches; but the last Act of Parliament, which assimilated all our jiquid measures under the standard celled the "Imperial gallon," fixed its capacity at 27:274 in

sures unuer the sandard caused the "imperial gallon," fixed its capacity at 277-274 in harmovenexts is rize When-Roys...—In our notice of this invention in last week's Joni nal, the patentee is erroneously named as "James Buck;" it should have been, "James Buck Wilson" (of the Haydock Wire-Rope Works, Newton-ie-Willows). Mr. Wilson writes to us to correct this misstatement, and adds that the grand object of his inva-tion is to manufacture flat wire-ropes, without stitching or sawing together a number ofround ropes. As any invention relating to the wire-rope cannot fail to interest our readers, we trust Mr. Wilson will enable us to lay a more detailed statement before them in our next.

them in our next.

G. S., C.E." (London),—The communication of our correspondent does not in our opinion contain any romarks of sufficient importance to warrant its insertion. We cannot be surprised at the letter received from the secretary of the South Western Eailway, stating that his suggestions could not be received; for it would be necessary for a specia committee of directors to be always sitting, if they once notified that they were prepared to listen to all who had suggestions of improvements to offer. We have before inserted communications from "G.S." on his improved railway management, but ever then considered his suggestions and plans enunciated entirally wrong. His present letter is, if anything, still more crude and farfetched, and the results he arrives at are nour view, erroneous. "G.S." of "Singgestions will never reduce expenses from 2s. 4d to 8d, or 10d, per mile, even supposing it practicable to carry them out, which we deay

to 8d. or 10d. per mile, even supposing it practicable to carry them out, which we deaps
"A Friend" (Colchester).—West Wheal Jawel may certainly be said to have nearly pai
its way in the past year, as the difference between the cost and returns is only about
40.; still it must be remembered that the thitode has, in a great measure, been the
support of the mine, and that for some months the reserves of ore have been diminishing. The cutting Tolearne lode in the 57 fin. level is looked forward to with mule, interest, and considerable expectations are entertained of the proposed operations in the
north ground. We refer our correspondent to the report, in another column, of the
proceedings at the annual meeting, beld on Monday last.

"M." (Neath).—We will make enquiries, and give some information in a week or two.

"A Reader" (Bakeweil).—Enquire of Mr. Button, chemist, Holborn, who will forward
you a list.

you a list.

The Cost-Book System.—"An Adventurer" (City).—The Vice-Warden, at the late sittings of the Stannaries Court, in giving judgment in the cause "Richards v. Cleave," said.—"If a person proposed to form a company, and the full number of shares were not taken up, the then shareholders, if they went to work, must pay all losses and receive all profits, according to their shares—not according to their interests as they would have been, had the full number of shares been taken, but as they actually existed. Say, an adventure was proposed to consist of 100 shares when complete, and that ten shares were taken by three persons in unequal numbers, and these agreed to work the mine, they were then, in fact and in law, the only adventurers, and must pay all expenses and receive all profits; and, as between themselves, in account, they would pay and receive according to their shares."

Possea and receive all profits; and, as between themselves, in account, they would any and receive according to their shares."

The Electrica Texessate.—Size Being called upon to give some correct and impartial account on electric telegraphs for the use of a foreign engineer, I know of no better authority than your estimable Journal, and I avail myself of your usual kindness in enlightening your correspondents, to request you to inform me, in one of your carliest Numbers, which is the best system to adopt for telegraphic communications, whether the electro-magnetic first introduced by Wheatstone and Cooke, or the later suggested by Bain, in which the electric current is produced by chemical means? The proposed line is on a railroad, and intended not only between two distant points, but also for the service of intermediate stations. If you could point out the comparative advantages of both systems, in point of efficiency, infallibility, velocity, power, and economy, you would render a good service to your readers. It is well you should know that Bain's process has been lately puffed up in certain foreign newspapers, and some ridiculously exaggerated statements have been made concerning its value, with the view of depreciating the other plan generally adopted in this country. Selentific and practical men, howers, are far from placing their confidence in "advertising" prospectuses, and they look to this country, where experience is joined to skill, for impartial information and guidance.—A. A.: London, May 4.

[Some remarks in reply to the enquiries of our correspondent will be found in another part of our Journal.]

"J. C." (Cheltenham).—We could not learn of any transaction having taken place while the price remarks.

guidance.—A. A.: London, May 14.

[Some remarks in reply to the enquiries of our correspondent will be found in another part of our Journal.]

"J. C." (Cheltenham).—We could not learn of any transaction having taken place while the price remained stationary—the alteration was occasioned by a bond fide sale.

"Engineer of the Next Generation."—We have received a long communication on the subject of the diagrams in our correspondent's letter in the Mining Journal of the 20th April last—the insertion of which would not, in our opinion, tend in the alightest degree to a settlement of the point at issue. After a long series of calculations, our correspondent insists that he has justified his former published conclusions, and considers that, instead of an under suspension-bridge, the title of the plan proposed should be "Motley's Bridge to Kingdom Come." The writer cannot see what his name has to do with the subject: his object was not to take away the good name of any one, and he canceives that in throwing out a few hints which it was thought would be acceptable to some parties, they would be as well received without as with the name.

"J. W. W." (Glasgow).—The only work established in Norway for the manufacture of chromate of potash is situated at Leer-fox, about 3 miles north of the city of Drontheim. About 33 tons of chromate of iron are annually used there, which cost about 2.5 s. per ton, delivered at the works. In reducing this about 62 tons of mundic, 1566 cwts. of different sorts of potash, 3900 lbs. of saltpeter, 550 fathoms of wood, 110 loads of tarf, 870 tons of coals, are consumed. The production is generally about 183,0°0 lbs. chromates of potash, and the profits of the establishment, which is the property of a Norwegian company, about 1000/. sterling per annum.

"F. F." (Broad-street).—The Mine of Chanuncillo from which silver to the value of many hundred thousand pounds has been raised in the course of a few years, was discovered by a man who threw a stone at his loaded donkey, and thinking that it wa

. It is particularly requested that all communications may be addressed-TO THE EDITOR.

Mining Journal Office.

26, FLEET-STREET, LONDON.

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the pro-

THE MINING JOURNAL Railway and Commercial Sasette.

LONDON, MAY 18, 1850.

The Maning Journal is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

Since our remarks on the Scotch iron and coal trades, in last week's MINING JOURNAL, three of the London papers, the Times, Morning Chronicle, and Daily News, singularly enough, on one morning appeared with articles on the same subject, and although somewhat differently worded, breathe precisely the same spirit; but from some inaccuracies in the statements, and, indeed, their general tenor, we have too much reason to fear they have been forwarded from interested motives. The general bearing of these articles are to the great difference at present existing between the trade in Wales and Staffordshire, and in Scotland. It is said that sales are taking place in Wales at lower rates than have been known since 1843; but in Scotland, it is stated that, although the stocks are estimated at 300,000 tons, the decline is not so severe, owing to the facilities afforded by the Glasgow banks, by whom advances are represented to be made readily to speculators on what is termed "makers' scrip," which promises the delivery of a certain number of tons when required, the amount of such advance often reaching to within a few shillings per ton of the actual market value. These notes pass from hand to hand, and often remain in circulation for a year or two. Circulation for a year or two.

Now, from information received by us, from a source on which we can

Now, from information received by us, from a source on which we can unhesitatingly rely, the make of last year was 680,000 tons, the exports 374,431 tons, thus leaving for home consumption 305,569 tons. The present year commenced with an estimated stock of 194,000 tons, to which add for home consumption and storage 100,000 tons, gives 294,000, from which, if we deduct 70,056, the quantity sold in feur months to May 1st, we have 223,944 for the present stocks. These calculations are made on the estimation that the make and sales have gone on in the past few months the same as in the corresponding period of 1849; but as there has been an increase in the exports in the first four months of 1850, as compared with the former year, of 42,606 tons, we take it the above 223,944 tons, as present stock, is considerably above the mark. With respect to the imputations that the bankers lend themselves to the bolstering up spurious quotations in trade, by supporting the makers' scrip system, the Glasgow Daily Mail truly states that, if bankers be requested to discount bills, they will not refuse additional security; even Lombard-street would not be over scrupulous in this respect. It appears to us clear that if, as has been stated, 300,000. worth of this scrip is affoat in the Scotch market, and that the stock of iron is 300,000 tons, representing a capital of nearly 700,000l, the iron makers cannot be charged with having promised to deliver metal which they have still to dig for and convert; or, that the bankers have run

any more than the usual risks. We have nothing new to communicate respecting the strike; the men still stand out, although we have heard that in some solitary instances the sale masters have given 4s, per day. It is still determined to adhere to the resolution which we noticed last week, of blowing out one-third of the furnaces for two months, which resolution is being carried out; and for further information we refer to a letter in another column, under the signature of "Subscriber," on the iron trade.

In attempting, for the satisfaction of our readers interested in As TURIAN shares, and others similarly situated, to define the liabilities of the holders of such shares, we cannot profess to speak ex cathedra. The discrepancies of the law of partnership, as now applied

Turian shares, and others similarly situated, to define the liabilities of the holders of such shares, we cannot profess to speak ex cathedra. The discrepancies of the law of partnership, as now applied to public companies, and the poculiarity of the facts of each case, which furnishes to the deciding authority the excuse of hair-splitting, to establish distinctions the most puzzling to lay comprehensions, must plead hereafter our apology, in the event of an adjudication contradictory to our present opinions. The proverbial fallibility of our legal guides has been peculiarly conspicuous since the year 1845, on the doctrine of responsibility connected with joint-stock associations, and justifies us in thus far guarding our correspondents against an implicit reliance on our dicta, where a state of facts exist, at variance, even slightly, from that which we are about to premise. The condition of the company, here taken as the type of those which, prior to the passing of the Joint-Stock Companies Act (7th and 8th Vr.c., c. 110), were popular on the Stock Exchange, under the denomination of "acrip companies" (and of which not a few availed themselves of the statutable exemption from "complete registration"), may be summed up as follows. Having published the prespectus of their scheme, and allotted shares, the promoters contrive, by fair means or foul, to form a proprietary. The interest in the shares, which represent a sufficient capital, is partitioned into two classes, registered and unregistered—the former constituted those of which the holders had enough of confidence, or temerity, to incur the risk of being sued for the debts in case of failure; and the latter, of the shares of those who imagined that mere possession could not be construed as evidence of partnership. Collaterally with the formation of the company here, a constitution as an anonymous association was obtained for it in a foreign country, which was supposed to endow it with respect to the administration of the principles of foreign law, the Englis

the form of the share certificate; with this reserve, that whatever condition may be repugnant to English law is void, and all others equitably, if not legally, sufficient to affect the partners, and control the proceedings of the company.

Had the operations of the company been merely ephemeral, questions might here be raised as to whether the promoters should bear the onus of expenditure or not. But in this case there is an essential ingredient, which supersedes, as between creditors and the individual partners, any discussion of the kind—viz.: the business of the company was carried on estensibly, at least, with perfect bona fides, and that, too, with the assent, express, or implied, of the shareholders. We have not any of the documents to refer to, as explaining the measure of that assent; but well do we recollect the capiting promises and assertions of peremptory necessity by which it was secured, as well as the faltering and declining confidence on the part of the shareholders. Manufested at each application for an installment of the capital—the prompt payment of which generally constitutes the best and simplest evidence of public approbation. Having progressed, usually do, to a state of difficulty and debt, the proceedings are brought to a standatill; it is immaterial how. Whether it be through insolvency, dissolution (as by the Spanish decree which affects the Asturian Company), or any other cause, which furnishes a motive for the abandonment of schemes, the company's affairs are destined to be wound up; and the first inquiry is, simply, who is there to pay the debts? The answer is equally simple—the shareholders. All matters of accounts between the direction and their co-partners—all questions of fraud, mismanagement, and delinquency of every description—will be foreign to the consideration of the demand of a fair creditor. Although both classes of shareholders are in the eye of the law alike answerable, as we assert, for the debts of the company, yet it is probable that a claimant would prefer to sue

force in their regard.

No precedent need be cited to warrant us in classing with the exempt, parties to whom shares may have been sold, or assigned, but who have never compromised themselves by any act which implies acceptance. This ground of exception is too well defined to admit a doubt; and we do not think there is any other to enumerate, save that of mere agency, well ground of exception is too well defined to admit a doub; and we do not think there is any other to enumerate, save that of mere agency, well avowed at the period of performing any daty connected with the shares, and indisputably proved. To this we shall advert in our next article on the subject, in describing the materials from which the contribution list will be constructed.

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Since the foregoing was put in type, we notice, by the reports of the proceedings before the MASTER, in re KOLLMAN'S Company, that certain holders of forfeited shares have been added to the list of contributories. As in Berrespord's case the deed had not been executed, we assume that the parties now rendered liable, though previously exempted, have executed some covenant distinguishing their position from that of Mr. Berespord.

It was certainly our full hope and expectation that before this advanced period of the Parliamentary session, some well-considered vanced period of the Parliamentary session, some well-considered measure would have been submitted to the popular branch of the Legislature, for the greater purification of mines, and for the more perfect protection of the working miner from those fatal casualties which wait upon his perilous occupation. We may conclude that the hands of Government are, as a rule, quite full, and that, considering the forms of the House, the cross play of parties and the dering the forms of the House, the cross play of parties, and the weight and complexity of those national measures demanding their official attention, they would not be likely to undertake the carry-

ling through Parliament of a difficult measure, such as this as to the better regulation of mines confessedly is, without that degree of prissure and urgency from without, which those who are interested in this subject have never yet infused into it. We believe that the greatest reasop which can be alleged why a measure adapted to the evil complained of is not now in its passage through Parliament is, that it has not been sufficiently and steadily preased upon the attention of Government.

It is not sufficient that a well-meaning deputation waits upon Ministers, communicating its own opinion and requesting theirs. It was a case less for being gentle than for being carnest; less for being meek than for being importunate—It was, in fact, an occasion on which, by the force of its reasoning, and the fervour of its invocation, the deputation should have set itself the task of winning the ministerial mind. As it is, we fear they heard little to inform or to quicken them; and this important and essential measure, considering that the session is so far advanced as that Parliament is entering upon its Witsuntide holydays, will be thrown over, it is to be feared, till another year. This Journal has not been romiss in presenting the subject with sufficient frequency, both to Parliament and the public; and we can now do no more than earnestly commend the working miners of the kingdom to the forecasting care of the masters, whose duty it is, as those who must give an account, to do their utmost for the safety and the happiness of those who serve them.

A correspondent, whose communication will be found in another part of our columns, desires to be furnished with information as to the best system of electro-telegraphy at present in use. If the object sought is merely a colloquial telegraph, then we have no hesitation in saying that the very best system which has yet been brought before the public, both for general efficiency of action and for economy of construction, is that of Messrs. BRETT and LITTLE, to which we have so frequently directed the attention of our readers. which we have so frequently directed the attention of our readers. If our correspondent, however, wishes for information upon the subject of a recording telegraph, we must refer him to the beautiful and accurate inventions which are now in the joint possession of Messrs. Brett, House, and Willmer, and which constitute the intended basis of operations with the "European and American Printing Electric Trlegraph Company." We had occasion, in our last Number, to discuss at some length the progress and the ultimate result of the recent trial in the Court of Queen's Bench—"The Electric Trlegraph Company. Willmer and Smith!" and we may now observe that the signal victory gained by the defend. we may now observe that the signal victory gained by the defend-ants upon that occasion does not appear very likely to be thrown ants upon that occasion does not appear very likely to be thrown away. On the contrary, we are given to understand, that it is now being followed up with all the ardour and promptitude of good general-ship; and that the public are likely, through the strenuous efforts which are now making, to be shortly in possession of a far cheaper and more efficient system of instantaneous communication than has yet been placed at their disposal. The new company, with which Messra. WILLEME and SMITH are connected, are seeking, by every means in their power, to place the printing telegraph within the reach of all classes of the community, by following out the system of the penny post; and their efforts, if successful, will undoubtedly lead to a great accession of business, as in the case of the postal system itself. The number of letters which, under the old system, passed through the Post-Office, in 1839, was 76,000,000; while the number for the past year was upwards of 337,000,000. With regard to the very high charges levied by the present company for the transmission of news along their lines of wire, it should not be lost sight of that every public despatch, every private message which passes through their hands, is subject, of necessity, to a certain amount of indirect taxation, in order to cover the expenses of that frightful, and apparently interminable, system of litigation into which the directors, for reasons best known to themselves, have thought fit to involve those interested.

If the object of all this lavish expenditure is merely to patch up the

system of litigation into which the directors, for reasons best known to themselves, have thought fit to involve those interested.

If the object of all this lavish expenditure is merely to patch up the broken crutch of a continued and exclusive monopoly in the interchange of thought and intelligence among the members of a mighty empire, we feel assured that the day is gone by for any such infliction as this to be quietly submitted to by a mass of intelligent men, and that all money so expended is utterly lost to the true purposes of genuine industry and social advancement. But we are reverting to a theme which has already carried us to a great learth on revivous occasions. Our accretions are advancement. But we are reverting to a theme which has already carried us to a great length on previous occasions. Our correspondent, in discussing the relative merits of different telegraphic inventions, observes—"It is well you should know that Bars's process has been lately puffed up in certain foreign newspapers, and some ridiculously exaggerated statements have been made concerning its value, with the view of depreciating the other plan generally adopted in this country." This is nothing new. Judging from the newspapers which have reached us on various occasions, the same system of puffing, with regard to this invention; has been carried on in America; and, after all, though bearing the name of Mr. Bars as that of the exclusive inventor, it is, in its chemical and electrical principles, but the appropriated inventions of two previous patentees of 1839 and 1841. Our correspondent is perfectly correct in looking with a suspicious eye upon all such "advertising prospectuses" as those he refers to. In addition to the telegraphs we have already named as deserving his particular attention, it is only right to mention the improved instruments of the Messrs, Heighton. These letter will be employed, more or less, upon the lines of the British Telegraph Company.

It is but rarely that we step aside from the ordinary path of our duties to notice the events which are daily springing into life in the world of politics; but the recent altercation between the Ionian Parliament and the Lord High Commissioner of the islands is of so novel and remarkable a description, that a word or two on the subject will probably interest some of our readers. The new Parliament of the little republic in question had scarcely got well into sesject will probably interest some of our readers. The new Parliament of the little republic in question had scarcely got well into session before they began to illuminate and to lecture not only the representative of the Crown, but even the Crown itself, on the great subjects of policy and administration. They asked for a radical reform. In what things, and to what extent, as far as any specification on their part went, they were wholly silent. They claimed for the Ionian people a larger participation in the official Government of the islands, without considering the disqualifying ignorance in which the Ionians continue, almost to a man, of those constitutional principles upon which all orderly and successful government is founded; and they required also that their commerce, which is now drooping and exhausted, shall be revived and invigorated by the wisdom and exertions of the Imperial Government—the Ionians themselves having, as is notorious, by their inferior seamaship, and the uneconomical management of their merchant navy, reliquished much of the carrying trade of the Levant to the flags of Naples and Sardinia. This was a tolerable necklace of claims to adorn the bust of the Lord High Commissioner with at his first meeting with the Ionian Parliament, and confirms, rather than otherwise, what we have read in a recent pamphlet on the colonies—namely: that the Ionians have been called up about a generation too soon into the class of representative states; that they are not able to so much as appreciate the duties of their new position; and that so far from being thankful for the amelioration of their political states by the interposition of Great Britain, they murmur and conspire, because the change has not turned out to be more complete and wonderful than it has or could have been. But the crowning curiosity of the case is this—that these islanders, who are now asking to be members of a Panhellenic empire, and to have more done for them than those who have been born and cralled in the bosom of free institutio Europe, Her Majestr's Commissioner has given to these murmurers-smart and a reproving answer in one of the most spirited and able public documents which it has ever been our good fortune to peruse; and we trust the Ionian Parliament and people will profit by the lesson read them, and each betaking themselves to their proper spheres of duty and of dil-gence, make the task of Government less onerous than, wanting these habits on the part of the governed, it and for ever necessarily must be.

THE POET LAUREATE.—The Morning Post suggests that Thomas Miller the basketmaker poet, ought to succeed to the vacant laureateship, mamuch as his poems are equal in quality to those of any living author, and that his prose works which breathe in every line the spirit of poesy, are more numerous. It would be a graceful compliment (says the Post) to that class of society, for the improvement of which the Royal Consort has so often exhibited an earnest solicitation, if her Majesty were to confir for the first time since the office was established, its honours and emotuments upon one of so humble an origin.

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GOLD MINES OF THE ISTHMUS OF DARIEM—EMIGRATION TO NEW GRANADA—CANALIZATION OF THE ISTHMUS OF DARIEM.

TO THE EDITOR OF THE DAILY FEW.

BIX.—On my return from California to Pensma, in the beginning of last Dec., I made are calculated in the the roses of the lethmus of Pansma, and find that gold was to be obtained by weaking the earth on the sides of the mountains, on the banks of the streams, and is tile crewices between the ledges of rock in their book, discensinated preselvely in the same manner as in California. Immediately after this excursion I proceeded to the isthmus of Darien, going down the Bay of Pansma to the Gulf of Sam Miguel, and ascending the Riber Tayra, or San Maria, to Yavisa, the capital of the territory, and to Malinesa, which latter I made my starting point in my researches for gold mines. Proceeding from theme latter I made my starting point in my researches for gold mines. Proceeding from theme states of the process of the pansage of the pansage of the state of the pansage of the state of the st

THE SALE TRADE—CONTEMPLATED MONOPOLY.—We regret to find that a move is making to buy up a number of the makers to stop their works, and thus increase the price in Cheshire, and allow the others to monopolise the trade; the recommendation is as mean and despicable as it is against the spirit of the age, and we hope the proposer may meet with the obloquy he deserves. Fair competition is now the order of the day. A statement, addressed to the salt proprietors of Cheshire, signed "A Well-wisher" (Aigburth), has been forwarded us, which states that year after year salt is selling at ruinous prices, owing to the make being greater than the demand; that the most feasible plan to obviate the evil would be to purchase—say, one-fourth of the makers who would stop their works, pay them is. 6d. per ton on all manufactured, and allow them a fair rate of interests for the use of their flats. He states the make to be 740,000 tons annually, the exports amount to 630,000 tons, and he recommends that the make should be curtailed to the extent of at least 100,000 tons; thus, instead of 110,000 tons for home consumption, as by his own showing we have at present, this Solon in monopoly would give 10,000 tons to the vast population of this kingdom, to be contended for by merchants, agriculturists, &c., of course, greatly enhancing the price. But even here the evil would defeat itself, for the demand would be so much greater than the supply, that the old system of evaporization of sea water could be successfully brought into competition against the pits, until the price was again reduced. Such is the end of all monopoly; it destroys itself by its exactions, not, however, without doing incalculable injury, and unsettling trade and commerce. So important an article as salt, to the public health and welfare, must, at least, be left to take its course.

tant an article as salt, to the public health and welfare, must, at least, be left to take its course.

East Wheal Shepherds.—In the Stannaries Court an action was tried to recover the sum of 1687, 9s., alleged to be due on account of goods supplied and money advanced for the use of the mine, in which Mrs. Sarah Hocking, the widow and administratrix of Mr. R. Ivey Hocking, late of Truro, was plaintiff, and Mr. Richard Clymo, the agent of the mine, was defendant. The evidence as to the state of accounts between the parties was of great length, but unimportant to the public. A principal point raised was, whether a Mr. Gray, an advanturer, should be admitted as evidence for the defendant. The Vice-Warden decided that, as an adventurer, such person's money or property was sought to be recovered by plaintiff, he could not be admitted as a witness, and his evidence must be struck out. Mr. Stokes contended that plaintiff had proved a debt of 507. The Vice-Warden, in giving judgement, said it appeared that Mr. Hocking never made any claim in his lifetime, and not having done so, and his widow not being properly acquainted with the particular circumstances, he rather decided the case on the ground of any unfair proceeding. Had plaintiff been living, the evidence justified an imputation of unfair concealment, but that was no imputation against the widow. The petition must be dismissed with costs, and although he could, under the circumstances, have wished to have exempted her from the latter, he did not feel it in his power to do so.

Right of Mr. Mr. Alexandrons to Inspect the Cost-book.—In the Standard and the setting an amended.

have wished to have exempted her from the latter, he did not feel it in his power to do so.

Right of Mining Creditions to Inspect the Cost-book.—In the Stannaries Court, Mr. James Richards presented a petition, praying for an amended account between the adventurers in Wheal Queen, an abandoned adventure. The case had been before the Registrar, who had reported in favour of the addition of Capt. Woolcock to the contributories. Mr. Hockin now argued against his being an adventurer, and submitted that the case having been already before the court, and the parties by their answer having admitted that they only were liable, it was too late to take an exception before the Registrar. Counsel on the other side proved that he had been heard to say that he was an adventurer. The Vice-Warden said he found the sum, rated 21. 18s. 4d. per share, amounted to sixteen guineas less than the required amount, and this sixteen guineas was exactly the amount of Captain Woolcock's salary up to the time. He did not think the case ought to have come before him, but he would defer his decision, hoping that in the interim a compromise might be effected. Such, however, was not the case; and when judgement was given, the Vice-Warden said that mining creditors, who are interested to know the names of those persons to whom they have given credit, may on application to the purser, or, on his refusal, to that court—indeed, they had a right to inspect so much of the cost-book as contains the names of the adventurers; therefore, the name of an adventurer was for the benefit of strangers as creditors, as well as it was, certainly, for the benefit of the co-adventurers altogether. This being so, a known connected party entering themselves as blank would do wrong, unless by so doing he undertook to be responsible for every payment between limself and his co-adventurers which their specified shares did not cover. After some further remarks, he adjudged Capt. Robert Woolcock to have been a joint owner of Wheal Queen, with Mr. R. Ivey Hocking. He co

SIEMENS'S REGENERATIVE CONDENSER.

SIEMENS'S REGENERATIVE CONDENSER.

We have elsewhere referred to a paper read at the Society of Arts on a new condenser, patented by Mr. Siemens, by which great advantages are considered to be obtained over any others hitherto in use.

In the introductory portion of the paper, Mr. Siemens briefly states the objects for which a condenser is applied, and traces its history of gradual improvement by Newcomen, Watt, Hornblower, and Hall, to the present day. There are two distinct classes of condensers—the injective condenser by Watt, which is the one universally adopted, and the surface condenser, which was first proposed by Hornblower, and improved upon by Hall and others. An efficient surface or dry condenser would possess considerable advantages over the injective condenser, because it allows the condensed water continually to be returned to the boiler, and, consequently, prevents incrustation of the boiler, with all the evils resulting therefrom. The surface condenser patented was one by Mr. S. B. Hall, which caused considerable attention in the scientific world. It consisted of two chests, containing a number of tubes, into which the steam was admitted, and by the alternate surrounding the tubes with cold water, immediate condensation was effected. Notwithstanding this description of condenser was highly ingenious, there were disadvantages connected with it which were insurmountable in practice. All those, indeed, hitherto proposed have failed, in consequence of their extreme complexity and weight, but more especially from their liability to derangement, through the deposition of calcareous and greasy substance upon the condensing surfaces, which it has been found impossible to remove, without taking the whole fabric to pieces. The surface condenser of Mr. Siemens is remarkable for its simplicity and lightness, and for the easy access which it affords for the purpose of cleaning. It consists of a series of copper plates and the whole pile screwed up tightly together between the sides of a rectangular closed ve

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condensing steam, the distance through which the heat travels in the metal, and the extent of surface in contact with the surrounding water, are in precise proportion to the relative rapidity with which these distinct operations are performed, and, consequently, the greatest economy of material is obtained.

Encouraged by the success of this condenser, Mr. Siemens has directed his attention to the nchievement of a still more important object, which is to condense the steam in such a manner, that the condensing water issues into the hot well at boiling heat, and yet produces an efficient occume within the working cylinder. This appears paradoxical at first sight, yet it has been successfully accomplished by a perfectly new principle, called by Mr. Siemens the "Regenerative Principle of Condensation."

The regenerative condenser, as applied to a high-pressure engine, consists of an upright rectangular trunk, A. of cast-iron, the lower end whereof assumes the form of a cylinder, and contains a working piston, P. The trunk itself contains a set of copper'or brass plates, B, which are placed upright and parallel to each other, of intervening spaces of the same breadth as the plates, are one side to the exhaust part of the engine, and on the other to a hot well, H, through an uncovering valve, V. The plates, B, are called the plates, and any the plates, B, are completely immercal in water, a small portion of which has entered the passage above the plates, and is, together with the air present, carried off by the rush of steam through the valve, V, into the hot well, where the water remains, while the excess of steam proceeds into the atmosphere. An instant later the water receals between the plates, exposing first their edges to the steam, which condenses thereon, and being still of atmospheric pressure, heats them to nearly 219° Fahr. But in proportion as the remaining steam becomes expanded, additional and colder portions of the plates are exposed by the receding water. At the time the water level sinks below the p

STEAM HAULAGE ON RIVERS AND CANALS.—An experiment has lately been tried, with complete success, on the Gloucester and Berkeley Canal, of a somewhat novel steam-tug for hauling vessels, instead of horse-power. It consists of a continuous flexible rail, or bar of iron, running the whole length of the canal, and made fast at each terminus. Above the deck of the tug are fixed a pair of rollers, between which this flexible iron band is placed, and as they are made to revolve by the steam-engine on board, the grip which they take propels the boat. On the trial in question, after hauling various small craft of from 70 to 80 tons burden, she took in tow a Greek brig, laden with corn to the amount of \$50 tons, which she towed against a head-wind to the dock entrance, at a good walking pace. She hauled the common canal boats at a rate of about 6 miles an hour, the speed being but little affected when going against tide. The cost of hauling in the Severn is a heavy item in the transit of goods, and this invention is calculated to diminish the expense 50 per cent., the consumption of coal being only 25 lbs. per hour. In the Mining Journal of 6th May, 1848, we inserted a deagram of a plan of Mr. Andrew Smith's, somewhat similar. In this a wire rope is laid down in the canal, and being made to take one turn round a drum on deck of the tug, set in motion by the engine, the vessel is in like manner propelled.

Shift-Building.—Mr. J. Jordan, engineer, Liverpool, has just obtained a

vessel is in like manner propelled.

Ship-Building.—Mr. J. Jordan, engineer, Liverpool, has just obtained a patent for certain improvements in the construction of ships and other vessels navigating in water. The invention consists in building vessels with an iron frame, composed of bars rolled into the required shape, to which timber planking is attached by rivets or bolts, to form the sides bilge, and bottoms. The keel-plate is curved at each end to support a timber stem, stern, and stem-post, to which a keel of wood is made fast underneath. The butt-joint, of two planks, is formed by fastening a sheet of iron between it and the frame, and interposing between them a layer of gutta percha, cnoutchouc, or other suitable material. In order to protect those portions of iron which are exposed to the action of water from injury, it is proposed to coat them with a combination of gutta ercha and blacklead.

COMPANIES PROCEEDING UNDER THE WINDING-UP ACT.

COMPANIES PROCEEDING UNDER THE WINDING-UP ACT.

KOLLMAN'S RAHLWAY LOCOMOTIVE.—A call of 12!, per share has been made by Master Kindersley, to liquidate the debts of this concern, amounting to about 2000. The Master has also added to the list the names of those parties whose shares were declared forfeited for non-payment of calls, and who had been previously declared not liable, it having been found that the shares in question were declared forfeited at an ordinary meeting, whereas, by the Deed of Settlement, it was necessary that they should have been forfeited at a special meeting, convend specially for the purpose.

CHELTENHAM, OXFORD, AND BRIGHTON.—Master Sir George Rose has appointed Mr. Norris official manager, and Messrs. Sewell and Fox solicitors, to proceed with the winding up and settlement of the affairs of this company, on the petition of Mr. H. B. Richardson, architect, of Gray's Inn, who states that the application for shares far exceeded the 32,000 to be alloted; that by default in payment of the deposit the project failed, but that the members of the provisional committee incurred debts on behalf of the shareholders, some of which have been discharged, but that a large amount remains undischarged, without any assets in hand to meet them. The Master has ordered all creditors to come in and prove their claims.

GREAT LEEDS AND LONDON DIRECT.—The promoters of this concern have announced that its affairs having been fally wound up and settled, under the inspection and superintendence of a committee of shareholders appointed in 1845; a further and final dividend of 5s. 6d. is now payable to the subscribers.

MADRID AND VALENCIA RAILWAY.—It having been stated that some 60,000/of this commany's finals, was still in the hands of the hankers, the recent in the state of the shareholder of the commany's finals, was still in the hands of the hankers, the recent in the state of the shareholder of the commany of the comments of the

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MADRID AND VALENCIA RAILWAY.—It having been stated that some 60,000/of this company's funds was still in the hands of the bankers, the recent inquiries before Master Blunt were directed to ascertaining information on the matter, but the result has led to the conclusion that, recently, the whole of that sum was withdrawn by one individual.—The Master has since issued an order, calling upon all parties claiming to be original allottees or helders of scrip in this concern to produce it for the examination of the official manager, and intimating that any person omitting so to do will not be included in the list of contributors.

METROPOLITAN RAILWAY JUNCTION.—Master Kindersley proceeded during the week with the winding-up of this company's affairs, and in which a large number of shareholders, who have paid considerable sums, appear concerned to know what has been done with upwards of 20,000/L, paid to the directors as deposit, there being only about 300/L of it now remaining at the bankers'. The scheme was started with the intention of circumscribing London with 20 miles of railway, to unite all the existing railways, with the addition of docks and warehouses for the most extensive trade. Plans and sections for this purpose were completed, but the project is alleged to have failed in consequence of those to whom shares were allotted neglecting to pay the deposit, between 7000 and 8000 shares were allotted neglecting to pay the deposit, between 7000 and 8000 shares were paid upon. The list of contributories is a large one, and is divided for the purpose of fixing them into four claimses. The first consisting of those who signed the deed and paid the deposit, but received scrip; the second, those who paid the deposit, signed the deed, and received scrip; it be third, those who paid the d

THE BRITISH ELECTRIC TELEGRAPH COMPANY.

another call of 2L per share is expected.

THE BRITISH ELECTRIC TELEGRAPH COMPANY.

This company's Bill, for the establishment of a new Electric Telegraph Company, came on In committee on Thursday, consisting of the Hon. Cornwall Leigh, chairman, Marquis of Worcester, Viscount Anson, Mr. Manners Satton, and Mr. Bagge. Mr. Sergeant Wrangham, Q.-C. and Mr. Menster and the Company Mr. Bill, and Mr. Leight of the Company Mr. Bill, and Mr. Menster Satton, and Mr. Bagge. Mr. Sergeant Wrangham, Q.-C. and Mr. Menster Satton, Company Mr. Bill, and Mr. Leight of the Company Mr. Bill, and the Wr. Leight of the Company With Messrs. Highton, the patentess of improved destrous of supplying the public with electric telegraphs on a more economical scale, and on a more improved plan than obtained at the present moment. Arrangements for this purpose had been made by the company with Messrs. Highton, the patentess of improved electric telegraphs and than obtained with telegraphs. By the proposed electric telegraphs and the present moment have were until the United Kingdom about 5000 miles of railway open, of which little more than 2000 miles were supplied with telegraphs. By the proposed measure those aiready supplied would be supplied at a lower rate, while on the public generally there would be conferred the additional advantage of competition. There were nearly 2000 miles of railway now constructing, besides 5000 miles for which Acts had been obtained, which at present were in abeyance, but which might with a single way and the electric telegraph, be constructed at from one-half to two-thrids of their present estimated cost. The instruments and apparatus of the British Electric Telegraph Company and the lectric telegraph, be constructed at from one-half to two-thrids of their present estimated cost. The instruments and apparatus of the British Electric Telegraph Company would be the case of the patents with t

VICTORIA DOCKS.—The preamble of this Bill for the establishment of new docks, in connection with the Eastern Counties Railway, opposite Woolwich, has been declared proved. It is proposed to have a capital of 400,000*l*, with power to borrow 135,000*l*, and to run the line of docks and canal nearly parallel to the River Thames at 600 yards from the bank, communicating with the river at either end by locks.

at either end by locks.

CHESTER AND HOLKHEAD.—Mr. Duncombe has reported from the committee that the objects of this Bill, as amended, are to empower the London and North. Western Railway Company to make advances, not exceeding 525,3822, towards the completion of the Chester and Holyhead Railway, to lease it, and to enable the two companies to make arrangements for working the railway. That the London and North-Western Company already own more than one-half the shares in the Chester and Holyhead Railway, and are, therefore, deeply interested in the completion of the railway.

Railway Rating.—At a vestry of the parish of St. Pancras, held on Wednesday—Dr. D. Fraser in the chair—it was stated that the London and North-Western Railway Company had paid for poor-rates, in 1848, the sum of 1714, and that they also submitted, in 1849, to pay 24161, in consideration of the enlargement of their premises, but that the vestry had subsequently increased the company's assessment to the sum of 27,463/. net annual rental; and that if the company submitted to the latter extravagant rate, they would have to contribute between 8000/. and 4000/. to the poor-rates of the parish. After a long discussion, it was announced that the vestry would reconsider the assessment.—At a meeting of the commissioners of the Sonthampton Trust, on Wednesday evening, this company appealed against the assessment of the Euston Station. It appeared that, in 1848, the amount paid in rates to the treat was 508; and in 1848, in consequence of the increase of the buildings, they consented to 1050/. The commissioners had now, however, raised the assessment to 23,800/. which made the company liable to pay about 1700/. Evidence was given to show that the value of the property was only 4600/, per annum, instead of 23,800/. and that, whereas the company only occupied 1.100th part of the trust, they were called upon to pay one-elighth of the raises. The deed upon to pay one-eighth of the r

ELEMENTARY GEOLOGY.

The interesting inquiries into the formation and original condition of the earth—the successive modifications it has undergone, and the agencies by which these changes have been effected, are felt at the present day to be of the utmost importance; indeed, to so great an extent, that what half a century since was generally only a confused mass of crude ideas and incredible theories, has now become reduced to a system upon which may be founded data as correct in principle, and as certain in practical application, as on any other of the physical sciences. In all great engineering works—to the architect, the miner, and even the agriculturist—a knowledge of geology is indispensable; and so important is it now considered to the future progress of the world, that it forms a distinct course of study for our youth in every academy at all above mediocrity. With these facts before us, it is not surprising that a great demand should have arisen for works treating on this pleasing subject, more particularly those of an elementary kind, which begin at the very threshold of the science, explaining the fundamental laws of the operations of the elements by which all change is effected, and the results to be expected from powers still at work tending to similar metamorphoses.

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arisen for works treating on this pleasing subject, more particularly those of an elementary kind, which begin at the very thryshold of the science, explaining the fundamental laws of the operations of the elements by which all change is effected, and the results to be expected from powers still at work tending to similar metamorphoses.

In the Mixing Journal of 2d March, 1844, we noticed a work by D. T. Ansted, M.A., just then published, in 2 vols., entitled Goology, Introductory, Descriptive, and Practical, and we have now the pleasure to call attention to another volume, by the same author, which has just issued from the press,* in the preface of which we are informed, that the rapid demand for, and favourable reception of, the first work, appeared to show that the author had not judged amiss in believing that a want had arisen at that time for a descriptive account of the science, and a statement of its practical bearings; but having been frequently asked to recommend amaller manuals of geology and mineralogy, and the educational use of these departments of science having advanced so rapidly and steadily, he was induced to prepare a volume, which, while perfectly elementary, should be tolerably complete. In the volume before us physical geography has been much more enlarged upon than in his former works; it is here treated as a special subject, and an entirely new division has been introduced—a useful account being given of the materials of the earth as well as the arrangements of rocks, and 250 pages of the work thus contain information scarcely mentioned in his former volumes. The descriptive and practical geological details are principally adapted and abridged from the earlier work, but resarranged, and some particular portions appear altogether new.

The order in which Professor Ansted has arranged the principal divisions of the subject are—Physical Geography, Mineralogy, Descriptive Geology, Practical Geology. These are subdivided into numerous chapters, which are again classified in sections, with a c

whole details of this apparently intricate, but highly fascinating, science.

We now proceed to give a few extracts, as conveving some idea of the pleasing style of diction, and facile manner in which information is conveyed. In the commencement of the treatise on physical geography we are told—

Upon the earth's surface, and within such moderate depths as can be penetrated by man, matter exists generally in a solid form, except in the case of water, which—though rarely to a depth of more than 5 or 6 miles—covers inve-fourths of the surface; and the atmosphere, which invests the whole globe with an aerial veil, reaching 70, or even 100 miles, above the mean level of the surface, but gradually becoming more rare, and its particles more widely separated, in consequence of its elasticity. But the atmosphere and water, although almost their whole substance is made up of gascous elements (or substances which, when uncompounded, retain the aerial condition at the earth's surface), form only a small promortion of the whole amount of such elements, for probably not less than one-half of all solid rocks consists of oxygen gas, which is thus the most common and abundant of all substances, and one whose properties and influence should never be lost sight of.

The following statistics of the land and water on the surface of the globe

The following statistics of the land and water on the surface of the glob

are interesting:

It is not unworthy of notice, that of the whole area of land (51,507,000 square miles) a very large proportion extends north of the equator: and it also appears singularly ar ranged in other respects, so that if the globe were divided into two hemispheres, the centre or pole of one being in England, that one would centain almost all the land, and the other, with the exception of New Zealand, would be found almost exclusively covered with water. It is also the case, that only about 1-27th part of the existing land has land directly opposed to it in the opposite hemisphere. The following table gives in round numbers, the distribution of the land into its natural and political divisions:—

	Square Miles.
C Europ	e and the adjacent islands 3,750,000
The great continent? Asia a	nd its islands
C Africa	e and the adjacent islands
C North	America and its islands
America South	America and its islands 6,50 ,000
€ West I	ndian islands 150,000-14,400,000
Anstralasia (Austra	dia 3,000,000
Pacific	lia 3,000,0^0 !slands, &c 980,000— 3,980,000
	200 000 100

Without passing beyond the actual limits of direct observation, we find, by the result of soundings, and by other investigations carefully made, that the general configuration of the land is continued to some distance at sen. Thus, if an alteration of level were to take place to such an extent that the sea should in a short time be reduced a thousand feet below its present level, a large tract, reaching from the Scandinavian coast to the islands off the west coast of Africa, would appear as dry land, deeply indented in a few places, but possibly not altering very much the general form of the European continent. But if this depression of the sea should be continued for another thousand feet, very little further change would be recognised; and thus there are in this case decided physical features, permanent through great varieties of condition, tending to prove that the cause of such phenomena as we have described must be sought for far back in the history of the world, and must have reference to causes of very wide application.

The distribution of the water is manifestly dependent on that of the land, and detached oceans are constituted according to the form of the continental masses. Although, properly speaking, there is but one great ocean, for it is nowhere so completely ent off and enclosed that a free communication does not exist with other seas, yet the land by its elongation from the Arctic to near the Antarctic Circle, and by numerous bold and marked projections, separates the water into five principal portions, which are called respectively the Pacific, the Atlantic, the Indian, the Arctic, and the Antarctic Oceans. The relative magnitude of friees, including the inhand seas opening from them, will be seen at once by the following table, and we shall proceed to describe some of their more marked pecularities:—

Harities: -	no man process to accorde to the	Smare Miles
The Great Ocean	Pacific Ocean Indian Ocean Antaretic Ocean	90,000,000 23,000,000 2,000,000—115,000,000
The Atlantic Canal	Artie Ocean	27,000,000 3,000,000 — 30,000,000
Tota	al area of ocean	145,000,000

In addition to the water thus distributed, there is also an area of about 300,000 squar miles occupied by the water of lakes and rivers, and of this the great lakes of North America, communicating with the ocean by the St. Lawrence, and the river St. Lawrence is saif, form nearly one-half. The mean depth of the ocean has been estimated by Humboldt to amount probably to about 1000 feet.

On the alternations of level of land Mr. Ansted remarks-

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On the alternations of level of land Mr. Ansted remarks—

We have seen that in the neighbourhood of volcances and in extensive districts subject to carridquake action, there are often local and temporary changes of level, consisting frequently of oscillations, and limited to ansal areas. Besides this, however, cievation and depression of a different and more extensive kind has been observed in many parts of the world where no vicinity of volcances and no distinct subternanean action can be traced, to account for such change. The coasts of the Baltic Sea and Northern Ocean, the coast line of Britain, and the shores of Greenland, have been chiefly referred to in evidence of elevation of this kind; but it will be clear, on a mement's consideration, that some peculiarly favourable circumstances are required that we may obtain the required proof of the fact in question. The amount of supposed change is indeed rarely more than a few feet in a century, and no measurements of the elevation of land above the sea-level so accurate as this have been made till within a very few years, owing partly to the real difficulties of measurement, and the liability to error from the imperfection of instruments, and partly to the absence of any admitted and recoverable base line. On the shores of the Baltic, however, when there are hardly any tides, where the inner line of coast is defended by a fringe of Islands, and where the rocks are hard and often very near the surface, the means are presented by Nature, and they have not failed to attract notice. The result is, that there appears to have been a gradual but slow upheaval, very different in different places, but sufficient, in the course of the last two or three centuries, to lay bare many rocks before sunk—to expose the foundations of buildings built on the shores at the water line—to choke up and render uscless old channels between rocks, and even to lay bare some beds of marine shells. The so-called raised beaches, found in various

An Elementary Course of Geology, Mineralogy, and Physical Geogrophy. By David Ansted, M.A., F.R.S., &c. London: John Van Voorst, Paternoster-row.

ess than 100 feet in the northern part, but as much as 400 feet in Patagonia. All this change has taken place within a comparatively short period, for, in Valparaiso, where

From that portion of the volume treating on Descriptive Geology we give the following description of the London clay:—

the following description of the London clay:—

The London clay, represented in Suesce by the more compact and concretionary beds found at Bognor, is a well marked and peculiar deposit, generally between 200 and 350 feet thick, and reposing on an important series of mottled clays, sands, and pebbles of the same age as the Argille Palatique of the vicinity of Paris, and for that reason the beds are not unfrequently, though vary inappropriately, called the "Plastic Clay Formation." These motified clays and sands have a thickness sometimes amounting to 150 feet, and are often very distinct in their mineral character from any associated deposits. The middle and principal portion of the London clay is generally of a blackish colour, and tough, but is often mixed with greenish-coloured earth and white sand, and occasionally encloses layers of oval or flattened masses of clayer limestone, called spiaria, which are traversed in various directions by creaks, filled completely with calcaveous spar, and are particularly abundant in the neighbourhood of Harwich, where they are much used in the manufacture of "Parker's Cement." Many parts of the London clay contain also hard bands, either calcareous or siliceous, and sometimes feasiliterous, and the cliffs of Harwich conclude with the following, from the introductory remarks to Prac-

ad conclude with the following, from the introductory remarks to Pract

tical Geology:—

If the reader has made himself acquainted with the facts of geology; or, in other words, if he understands the nature of the materials of which the earth's crust is made up, the order of arrangement of those materials, and the changes undergone both in the actual rocks themselves, and in the position they occupy, he will not be inclined to question the value of such knowledge to practical mon, or the nature of the applications of geology to practical purposes. Such knowledge must always be available when any thing is undertaken concerning the earth, either as the basis of operations, or the source whence all valuable materials are obtained. It may be well, however, to illustrate this point by a few simple examples.

taken concerning the earth, either as the basis of operations, or the source whence all valuable materials are obtained. It may be well, however, to illustrate this point by a few simple examples.

Regarding the earth first as the basis of operations, it is well known to every engineer that the whole management of earthworks, whether for roads or intrenhments, whether in cuttings, tunnelling, or embankments, must be greatly influenced by the nature of the soil, the subsoil, and the underlying rocks—the latter directly modifying the former, and being the original and fundamental cause of all peculiarities of condition. The permanence of any structure also must, in like manner, depend on the rock in or on which the foundation is placed, and thus requires a consideration of geological position; while questions of drainage and the source of water supply, both for the use of towns and in agricultural districts, directly depend on the geological constitution of such locality, since, without reference to so essential a point, the principles of science concerning these matters cannot properly be applied. It is only within a few years, perhaps, that such an application has been made, but the numerous reports concerning the drainage of towns that have lately appeared, show at once the admitted necessity of something of the kind; and is too many cases they have afforded examples of the want of an acquaintance with the first principles of geology on the part of the engineer.

As to material, again, it is clear that all substances derived from the earth should be studied, at least in some measure, in the place where they occur in a natural state; and no one is really espable of judging concerning the value of material without knowing something of its history. This applies to agriculturists, who should know whence soils are derived, and where to look for desirable rocks for mingling with others at the surface: to land valuers, who ought to be well acquainted with the causes of improvement or deterioration that may be at hand

DEVONSHIRE GREAT CONSOLIDATED MINING COMPANY.

inferences, concerning the materials or which the earth is constructed, and the circumstances under which these materials are generally present.

DEVONSHIRE GREAT CONSOLIDATED MINING COMPANY.

In last week's Mining Journal we gave a report of the proceedings at the annual meeting of this company, held on Monday, the 6th inst., with a full statement of accounts, but deferred the directors report to our present number, which we now insert. In connection with the report, a very full statement of the financial position of the company, with the appearances and prospects of each mine, was given, from which we find that the quantity of ore in sight was made up as follows:—Wheal Maria, 4703 tons; Wheal Fanny, 20,498 tons; Wheal Alanna Maria, 3800 tons; Wheal Josish, 33,085 tons; and Wheal Thomas, 144 tons—total, 62,230 tons, which, taken on an average at 61.6s, per ton, will produce the sum of 399,049/. The number of fathoms driven in Wheal Maria has been 241½; Wheal Fanny, 276; Wheal Anna Maria, 283; Wheal Josish, 375½; Wheal Josish, 375

lire antisfaction of the agents of the mine. The other portions will be proceeded with as necessity may require.

The various remaining items of the financial statement speak for themselves. The balance, which shows a sum, in cash and bills, to the credit of the company of 133671. 17s. 8d., being an increase on last year's account of 13841. 10s. 2d. The estimate of liabilities and assets has been made on the same principle as heretof-re adopted, due allowance being made for depreciation of stock, and the balance of 72,9354. 11s. 7d., shows an increase on too year of assets over itabilities of 67041. 11s. 7d. This favourable and satisfactory state of affairs is highly gratifying to the (directors, who are warranted in expressing their expectation of a continuance of them, from the large quantity of ore still remaining in the mines, amounting to upwards of 82,000 tons, and the general effective working of the concern, reference to which will be made in the mine agent's report. They trust the shareholders will be equally stathed, seeing they have not only received an increase of dividend amounting to 3580L, but also accumulated property equal in value to nearly 7000L, during the past year. It is to be observed that the accounts are made up to the lat March only, since which date some large sales of ore have been effected, which will enable the directors to declare in the present month a dividend of 9L per share, an announcement, undoubtedly, gratifying to all.

only, since when the present month a dividend of 91. per share, an announcement, undoubtedly, grutifying to all.

One of the last acts of the directors has been to receive and accept Mr. Josiah H. Hijchins' resignation of the office of superintending engineer and mine surveyor. They do find expect, now the mines are in a regular course of working, the interest of the shareholders will materially suffer by that gentleman's retirement from active duty, especially as the directors have nominated him, agreeably to his request, the consulting engineer and nine surveyor to the company, in which capacity he will be at all times ready to advise them in cases of difficulty, or on matters of importance. No other application for the office of director having been made, the directors, whose duties terminate this day, beg to offer themselves for re-election, and trust their past excitons for the interest of the company will be sufficient guarantee for their unremitting attention for the future. The auditors are also willing to continue in their appointment, if elected. The report on the mines has been drawn up as usual. A copy of the documents relating to the same will be found in the offices of the company, and are open to the inspection of shareholders.

UNCERTAINTIES OF MINING.—The Ty Main Lead Mine, near Holywell, was UNCERTAINTIES OF MINING.—The Ty Main Lead Mine, near Holywell, was an old nine, but was deserted by the parties who originally took it, under the conviction that there was no ore to be found; but, through the perseverance of Mr. Thomas, of the Bear's Head Inn, Holywell, and other enterprising parties, the mine was taken, and they recommenced working it about two years ago. Last week they came to a vein of ore of silvery quality, more fruitful in silver, when assayed by Mr. Buckley, manager to Messrs. Mather and Co., thun any discovered in Finishire for many years past. The vein is 7 inches wide, and it is supposed that 2 tons of ore will be raised daily.

GASES FROM THE BLAST-FURNACE.

The communications on this subject by Mr. Montefiore Levi and others, which we published in several Numbers of the Mining Journal since February 1981. last, give a very general and clear view of the methods of employing the gases from the blast-furnace as fuel in reverberatory furnaces. In the American Railroad Journals for November last we find a very full translation from the Traite de la Fabrication de Fer, by M. B. Valerois, published at Brussels, in 1843, on this subject, which, in addition to the tables of analysis we have given, goes at length into the rationale of the process-It is here stated that these gaseous combustibles have this advantage over solid ones, that they develope instantaneously the temperature which corresponds to their calorific power, which admits of greater heat being obtained, and one more easily controlled. With gaseous combustibles it is easy to produce either oxidation or a reduction, or a simple elevation of temperature without oxidation or reduction. They are also more economical than solid combustibles, because there is less heat lost. In charcoal blast-furnaces the oxygen of the air delivered by the tuyère is rapidly transformed into carbonic acid; carbonic acid, in contact with charcoal, at blast-turnaces the oxygen of the air delivered by the tuyere is rapidly transformed into carbonic acid, carbonic acid, in contact with charcoal, at a high temperature, passes into the state of carbonic oxide; this causes a diminution of temperature, which limits the zone of maximum heat, or of fusion, to a distance not exceeding 8 to 12 inches above the tuyère. From this line to the top of the boshes the current of gas is principally composed of carbonic oxide and nitrogen. From the top of the boshes the proportion of carbonic acid gradually increases until it rises to a point about half-way from the boshes to the tunnel head, and from thence it remains constant. At the same time the proportion of carbonic oxide diminishes that of hydrogen increases. It is in the upper part of the stack the vapour of water is disengaged. The specific heat of this vapour being considerable, its presence perceptibly diminishes the temperature produced by the combustion. The complete transformation of the oxygen of the air into carbonic oxide appears to take place at a greater height, or farther from the tuyère, in a coke furnace than in a charcoal furnace. This conjecture is based upon an analysis of gas, taken by Ebelman from a cupola 4 in below the tunnel head. He found it to contain carbonic acid, 11-91; carbonic oxide, 11-91; hydrogen, '99; nitrogen, 75-19=100-00.

based upon an analysis of gas, taken by Ebelman from a cupola 4 in. below the tunnel head. He found it to contain carbonic acid, 11°91; carbonic oxide, 11°91; hydrogen, 99; nitrogen, 75°19=100°00.

A certain quantity of air escapes the blast-furance; some persons estimate it at one-half; others at two-thirds, the whole quantity employed. It is probable both are too high. Still air does escape unconsumed, and that which is employed yields carbonic acid; but if the bed of fuel on the grate of the furance was very thick, no free oxygen would escape, and the combustion would yield carbonic oxide, which, in burning a second time, would develope a very high temperature. According to Karsten, it is more and more confirmed, by experience, that the best mode of using fuel in a reverberatory furnace is to convert it, as much as possible, into carbonic oxide, and burn this gas by hot air. It is the most economical, and will produce the highest temperature, and the highest chimneys now in ordinary use can be dispensed with. It may also, by this means, be possible to employ fuel that does not cohere in coking, that is not very pure, or such as has not hitherto been used in reverberatory furnaces.

In the Mining Journal of the 9th March are several plans of furnaces for this process. In M. Faber de Fauer's furnaces the width of the bridge, bottom, and flue is 2 ft. 5 in., as in the refinery furnace; from bridge to roof, 5 in.; length of bridge, 3 ft. 6 in.; of the bottom, 4 ft. 8 in.; and flue, 15 in. The bottom is made with mortar of raw and burnt fireclay mixed, and near the flue an opening is left for the flow of the cinder, which forms during heating. The mode of working this furnace is, when lit, to bring it to a white heat; the iron to be charged is then plunged into a thin grout of clay and pulverised cinder, put into the furnace, care being taken that the blooms do not touch each other. When heated on one side they are turned, and having attained a uniform heat, they are withdrawn. A charge is from 4 to 6 ewts, and h

EMIGRATION TO THE UNITED STATES.—In the Mining Journal of April 27 we noticed the formation of a company for the purpose of facilitating emigration to North America, under the fitle of the United States Land Company. In connection with the company is a collateral undertaking, for taking possession of, and working mineral lands, and any beds or streams of the precious metal; and for the carrying out this latter plan a separate fund is proposed to be raised, which is already in a forward state. Mr. Catlin, the local superintendent, will proceed to Texas with the first batch of settlers, the property which the company have already secured being about 60,000 acres in Milam County, in that state. This county is the finest portion of the state, well supplied with streams of pure water, and with quantities of fine timber for building and other purposes, and interspersed with rich prairie or meadow land. On Mr. Catlin's settlement of the emgrants, he wil, with a number of gentlemen who have determined to accompany him, proceed to the scatern spurs of the rocky mountains, to explore their mineral character; and a right or title will be secured to any lands which may be found likely to cut rich in deposits of the precious or other metals. Parties going out under the auspices of this company will avoid the privations which have been endured in California, as they will reside under a well-organised plan for their comfort and protection.

Shall America Manufacture or Import Iron for the Rall-Roads?—

SHALL AMERICA MANUFACTURE OR IMPORT IRON FOR HER RAHLROADS? SHALL AMERICA MANUFACTURE OR IMPORT IRON FOR HER RAILROADS?—From the extent to which we are engaged in this country in the construction of railroads, and from the fact that we are now importing all the rails we use, it becomes a matter of great importance to consider the influence which the large drain of money required for their purchase will exert, both upon the general business of the country, and upon the ability of our people to continue the construction of these works. The American Railroad Journal, a paper devoted to the railway interests of the country, says:—" Unless there should be some unforeseen check given to these enterprises, there will be constructed at least 10,000 miles of railroad in the next 10 years. This may seem a large stimate to some, but taking into consideration that, to make up this amount each state would have to build only 334 miles yearly, and that many will build twice or three times that extent, it will be found to be much below, instead of above, the mark. A very large amount of iron in addition will be required for re-laying of tracks, and repairs of roads. This estimate will require over 100,000 tons annually, and will, at present prices, cost at least \$5,000,000. This sum, therefore, must be sent yearly to England for the article of rails alone, unless we can engage in their manufacture. "Aminers' Journal.

LOCOMOTIVE ENGINES IN AMERICA.—Mr. Norris, of Schenectady, has just

100,000 cons annually, and will, at present prices, cast at least \$5,000,000. This sum, therefore, must be sent yearly to England for the article of rails alone, unless we can engage in their manufacture."—Miners' Journal.

LOCOMOTIVE ENGINES IN AMERICA.—Mr. Norris, of Schenectady, has just placed upon the Syracuse and Utica Railroad a new engine, called the Lightning, designed for high speed. We take the following description of it from a Syracuse paper:—The Lightning came up yesterday afternoon from Utics with a train of six eight-wheel cars, with a strong head wind, in 66 minutes. This is the greatest speed on record, in this country or Europe; taking the length of the road, 53 miles, the running speed would be just 54 minutes. Her cylinders are 16 inches diameter, 22 inches stroke, placed horizontal, midway of the cylindrical part of the boiler. One pair of driving-wheels, 7 feet in diameter, are placed immediately under the fire-door. In front of the fire-box are placed a pair of bearing-wheels, 4 feet in diameter. The boiler is supported in front by four wheels of \$\frac{1}{2}\$ feet diameter, in a truck. The eccentrics are placed on the outside of the wheels, attached to the crank-wheel. Her valves are worked direct, without the intervention of a rock arm. She uses her steam expansively, from \$\frac{1}{2}\$ to \$\frac{1}{2}\$ of the stroke of the piston, always preserving the same lead as when working at full stroke. Great care has been taken to prevent the condensation of steam before it enters, and while doing its duty, and in the cylinder. The wheels were manufactured by the Messrs. Norris of solid wrought-iron; the spokes, hab and rim, all in one solid mass. She was built at Norris's Locomodive Works, Schenectady, by Edward S. Norris, after a plan furnished by Septimus Norris. Her power, as a daily duty, is 600 passengers, 60 miles per hour. Her boiler contains 116 tubes; 2 inches diameter, 10 feet 3 inches long; fire-box,outside; measures \$\frac{1}{2}\$ these diameter, 10 feet 4 inches above the surface

Important to Parties becoming Members of Societies and Clubs—In the Westminster County Court, on Thursday, the Royal Agricultural Society of England, through their secretary, sued an independent gentleman, named Knight, for three years subscription, at the rate of 11 a year. The Judge ordered payment on the 16th inst. His honour said that, if gentlemen chose to enjoy the honour of belonging to societies and clubs, they must pay their share. That they must not add to their signatures M.R.A.S. in their canvassing prospectuses, without paying for their diplomas.

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Griamal Correspondence.

THE IRON TRADE.

THE IRON TRADE.

Sir.—Having been carefully watching the course of the iron trade generally, and especially that of Scotch pig-iron, the fears expressed, in my letter, published in your Journal of the 13th April, that unless the demand was sufficient to raise the prices permanently, a decrease would take place in the production, it is now quite evident that such anticipations were correct, as the makers have determined to blow out one-third of the furnaces lately in blast; and this determination is now being carried out. At the present time, there are about 45 furnaces out, owing to the strike of the colliers. How long this strike may continue is uncertain; but should the colliers determine to accept the masters' terms, still one-third will remain out for at least two months, and probably until a higher range of prices is established than has existed during the last two years, and pig-iron become once more remunerating to the makers. This object appears likely to be attained, as the reduced make will, from present appearances, be soon overtaken by the consumption; for upwards of 41,000 tons were shipped during the month of April, and to this must be added the quantity taken for local consumption by foundries and malleable iron-works, which is variously estimated at from 5500 or 6000 tons per week; but may be safely taken at the lower quantity, say, 22,000 tons per month.

Now, if 15 furnaces, which belong to the malleable iron makers, and consume all their make, are deducted from the total number in blast at the commencement of the year, there remain 97 furnaces to supply the general demand, even should the colliers return to work.

If the quantity of iron produced by the above 15 furnaces (say, 1700 tons per week) be deducted from the quantity consumed locally (say, 5500 tons), there remains 3800 tons per week, or 15,200 tons per month, which, added to the shipments for April, gives a total of upwards of 56,000 tons for shipments and consumption generally; so that, if the demand continues in the same proportio

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250,250 230,000 present stock, as generally esti-[mated] 480,250 373,600 106,650 tons stock, Dec. 31, 1850.

GOVERNMENT INSPECTION-LIFE INSURANCE.

given, as it is well known by all persons conversant with the subject that be stock does not exceed 250,000 tons.

Glasgow, May 15.

GOVERNMENT INSPECTION—LIFE INSURANCE.

Six,—If may be concluded as certain that no measure on the important subject of inspection will now be introduced in the present session—that is to say, by the Government, who appear to proceed with that wise and commendable caution so serious an enactment requires, involving as it does a comprehensive change in the most important branch of our domentic industry. Some Radical Member, who, as usual, bestrides benevolence in pursuit of reputation, may bring forward again a futile plan of that industry. Some Radical Member, who, as usual, bestrides benevolence in pursuit of reputation, may bring forward again a futile plan of that industry. Some Radical Member, who, as usual, bestrides benevolence in pursuit of reputation, may be right of the abortion will be transferred with the usual measure of injustice. But as the Government reports are not yet presented, and the time which remains is inadequate for digesting any consistent enactment, we may be pretty certain that the incubus, or chimera, or whatever title is to be appropriate for a plan avowedly founded upon imitation of a foreign practice, which has lately proved its efficacy by the loss of 79 lives in one explosion in Belgium, will not rear its head this year as a mark for the ridicule of the well-informed and the commendation of the ignorant. In the meanwhile, it might be very investing and instructive if your able correspondents, Mr. Sutcliffe, Mr. Dakin, "Black Diamond," T. R.," and others, who are evidently sound practical miners, would favour you with their opinions on the general tendency of the system of life insurance, to which I referred in your Journal of the 4th inst. Their experience could furnish valuable hints as to the benefits it may create, and the difficulties which may attend its introduction. The lumented Dr. Reid Clanny, whose untiring and disinterested carriors in or and they may have been persuaded that an inspector is an apparition in the mines to scare away their dangers. Were the solid benefit of the borking miner at all in the minds of their deceivers, how much better build is be to spend their superfluous time and energies in persuading is masses to devote a fractional amount of their yearly earnings to make it is not expectation and anount of their yearly earnings to make it is to devote a fractional amount of their yearly earnings to make it is provision now afforded for their families, in the event of a casualty decrtain advantage would be their immediate possession; and each man wall dinsensibly add his weight to the establishment and maintenance of a powerful means of promoting the ultimate alleviation of their dangers, a far as they can be alleviated. It is true, the agitator's occupation will gone at the expectant inspectors will be disappointed; but I fear the large of the expectant inspectors will be disappointed; but I fear the large of the expectant inspectors will be disappointed; but I fear the large of the expectant inspectors will be disappointed; but I fear the large of the expectant inspectors will be disappointed in the expectant inspectors. It is only during the past week that the entire proper food. And as to the disappointed inspectors, if they will

submit to contract the range of their ambitious vision, and, coming down to the level of daily life, confine their practical energies each to the management of one colliery well, granting it the benefit of their superior intelligence, they will do some good in their sphere. This may result equally to their advantage, as to beat their tiny wings in a vain attempt to perch upon some imaginary pinnacle, as national benefactors.

May 14.

DAVID MUSHET.

THE COLLIERS' " EIGHT-HOURS BILL."

THE COLLIERS' "EIGHT-HOURS BILL."

SIR,—No sounder advice than that you gave the working miners in last Saturday's Journal, was ever offered them by the most enlightened friend of humanity. Without deabt, at a time like the present, when Science has centripled our powers of production, "eight hours a day" is long enough, and more than is necessary, for a fellow-creature to toil in darkness and dauger; but by some monstrous blunder of the social engineers of the past and present generation, every addition to our means for the creation of wealth, instead of being followed by a corresponding augmentation of physical comfort and reduction of human toil, has only tended to deprive the labourer of the few comforts he formerly used to enjoy, and rendered him more and more a slave, to be used and abused for the benofit of others, and treated worse than the beasts that perish. When will legislators and society comprehend the sacred truth, that the happiness of each is best secured by promoting the good of all? or when will the enlightened sages of the free-trade school perceive the gross absurdity of that system of political economy which permits famine to result from over production? The reduction of the hours of labour, not only by the miners, but likewise by every other useful class of producers, in proportion to the want of employment, would do more to improve their condition (without inflicting injury on any) than ten thousand strikes for high wages ever can do, while they continue to glut the market with their unsought produce; and is not only the only rational remedy against that evil, but could be applied most effectually, and with the utmost facility, without any legislative enactment; and would to a certainty be so applied, if the workers, and those who direct their energies, could be made to perceive the advantages of such a course, and, forgetting former differences, unite heart and soul to carry such a proposal into effect. I hope, Sir, you will, as often as occasion offers, direct the attention of employer

THE COLLIERS EIGHT HOURS BILL.

THE COLLIERS EIGHT HOURS BILL.

SIR,—By your last Journal it appears that an agitation is to be attempted on this subject. If this be so, it can scarcely fail to do more harm than good. In most districts the colliers are paid on the quantity, or weight, of the coal produced, and not on the number of hours they may be employed. Whether they work in one, two, or three "shifts" in the 24 hours is a matter of arrangement between themselves and their employers. The colliers generally have the option of "shift," or day-work, and if they elect to work 10 hours instead of 8, it is their own choice. If they object to the longer period, they have the power to help themselves to a remedy, without applying to Parliament. Where collieries are worked during the whole 24 hours, it is the interest of the coal-owner to have three "shifts," with alternating changes as to the periods in which each man is down the pit; and, in cases where there is no night-work, it is still opional with the men to determine the number of hours they may be disposed to work. This is believed to be the general practice throughout the mining coal districts, but there are exceptions in those places where the "butty" system prevails. These exceptions, however, do not constitute such an amount of evil as to require the remedy proposed. If the colliers imagine that a limitation of the hours will increase the price per ton of the coal produced, and that, supposing an Act to be passed to that effect, they will be able to earn the same wages in 8 hours as they now do in 10, they are mistaken and misled.

The agitation of such a question just now cannot be viswed otherwise than as impolitic and unwise, and must necessarily tend to embarrass their best friends in their endeavours to ameliorate their condition. To effect this, there must be a combined effort, directed to one great object, otherwise the miners will remain session after session without any Act of Parliament being passed in their favour. These opinions are at variance with those expressed by you i

ON THE PURIFICATION OF GAS.

ON THE PURIFICATION OF GAS.

Sir.,—The accompanying letter, from the secretary of the Rugby Gas Works, in reference to the infringement of my patent process for purifying coal gas, sufficiently explains itself, as it will be at once evident that the company has discontinued the employment of my materials (sulphate of lime and oxide of iron), as soon as distinct evidence was afforded of the validity of my claim. By publishing these letters in your valuable Journal, you will convey a correct impression of the real merits of this question to the public.—Richard Lamna: Poplar, May 13.

Sig.—I laid voir letter of the lat inst. As to purifying gas with sulphate of fron and

Sign.—I had your relevant p. LAMING: Popier, May 13.

Sign.—I had your relevant of the 1st inst. also be purifying gas with sulphate of fron and other things therein mentioned, before the directors at their meeting yesterday, and am directed to inform you, that the process you mention is not in use at these works.

Rauby Gas Company, tany 7.

G. Warrislaw.

INTERRUPTION OF THE NAVIGATION AT RIGA

INTERRUPTION OF THE NAVIGATION AT RIGA.

Sir.—I am well aware that your interesting scientific Journal is extensively read in Russia, and I wish, therefore, through its columns, to call attention to the bar which now so seriously affects the town and trade of Riga. This obstruction has been forming for several years, and has at length reduced the depth of water to 9 feet, which is much too shallow for heavily laden vessels to pass over in safety. Dredging by the ordinary method such an enormous mass of sand would be a laborious work, of much time and expense; and I, therefore, suggest that several large charges of gunpowder (say, 2000 lbs.) be sunk deep in the sand at suitable distances, and fired simultaneously, by the aid of the galvanic battery. The charges could be deposited by means of small cylinders, sunk by means of the excellent pneumatic system of the late Dr. Potts, which could be withdrawn, leaving the charges in their proper position. These powerful explosions would, of course, disperse the sands in all directions, and open the channel for navigation with safety.—G. Shepherd, C.E.: May 16.

GODWIN, TONGUE, AND CHANNEL SANDS.

SIR,—I deferred my communication, in reply to the remarks of "A Merchant," in your valuable Journal of 27th April, fully expecting and trusting that some one connected with the Dublin Steam-Packet Company would have repudiated the charge of drunkenness and incompetency, so covertly made against the captain of the ill-fated ship, Adelaide. Are we, from the assertion of "A Merchant," to conclude that all the vessels which founder at sea, or are wrecked on sands, are under the command of drunken incompetent captains? If such be the fact, those persons who

been lost on the outside bank of the Godwin; and the crew saved, that of the Buffalo, remained in the most perilous position for a whole night and day, before they were discovered. These casualties, succeeding each other in such frightful rapidity, are really awful; and as your correspondent insinuates that shipowners begin to complain of the charge for lights, I would suggest that the expense should be borne by the country generally.

May 14.

G. Shepherd, C.E.

MOTLEY'S UNDER-SUSPENSION BRIDGE, &c.

MOTLEY'S UNDER-SUSPENSION BRIDGE, &c.

Sir,—I was much gratified in viewing several ingenious models of Mr. Motley's inventions, among which is a beautiful model of his plan for a bridge at Clifton, which appears to me to be the most perfect arrangement of materials to obtain strength and security I ever had the pleasure of witnessing. The structure is based upon the united principles of tension and compression, so harmoniously blended, as to give the most unerring security, combined with lightness, economy, and elegance, that can be well imagined or desired; also a model of what he terms an inflexible suspension, which appears, by its arrangements, to possess that property in a much higher degree than has ever yet been effected, which arises from his plan of supporting the suspending bars by upright supports from the floor of the bridge at suitable distances, so as to prevent the possibility of the suspenders ever assuming a curved line, and consequently resisting, in the highest degree, possible deflection. His plan also of graduating the suspending bars up the towers is, in my opinion, preferable to that of suspending from the top; for although a saving of 20 per cent. might, therefore, be effected in the weight of materials, yet the bringing down the centre of gravity would, I think, amply compensate that advantage, giving at will greater security, as well as more certain inflexibility, to the floor; at all events, whether the suspenders are at the top, or graduated, his original and ingenious plan of supporting the suspending bars most certainly renders such an inflexibility as cannot possibly be obtained by any other means; and, therefore, it is my decided opinion that it is unquestionably the firmest and most economical plan of suspension ever yet effected.

Fleet-street, London, May 16.

QUALIFICATION FOR A MAGISTRATE IN A MINING DISTRICT.—A short time since two gentlemen called upon a magistrate (not 100 miles from Bovey Tracey, Devon), respecting some mining property (i. e. iron mines), when the following dialogue took place:—Magistrate: Have you seen Mr. W.'s mine?—Gentlemen: No, we have not.—Magistrate: Why, they tell me it is a steel mine.

steel mine.

PORT NATAL.—We have on more than one occasion called attention to this interesting colony, situate on the eastern coast of Africa, and said to hold out great advantages to emigrants from this country. Within easy distance, compared with Australia, possessing a healthy climate and a fertile soil, producing all the products of the southern states of America and the West Indies in abundance, as cotton, tobacco, &c. We are glad to notice the publication of a map of the colony, by Mr. Wyld, of Charing-cross, showing the entire division of the colony into districts, of which six are already defined and named. The colony is bounded on the north and east by the Unisinyatee and Tukela rivers and the ocean, on the south by the Pacific, and on the west by the Great Drakenberg or Quathlamba Mountains, which reach an elevation in some parts of 4000 feet, forming a natural boundary for 180 miles, the whole length of the colony from north to south.

WATERFORD AND KILKENNY RALLWAY.—The works on this line are rapidly.

4000 feet, forming a natural boundary for 180 miles, the whole length of the colony from north to south.

WATERFORD AND KILKENNY RAILWAY.—The works on this line are rapidly proceeding towards Knockwilliam, and that portion between Thomastown and Ballylowry is already opened for traffic. The Lattice-bridge (noticed in last week's Mining Journal) underwent the final test on Friday last, before Capt. Larcome. A loaded train of 180 tons weight was first passed over the bridge at various rates of speed, and subsequently the engine was put into a state of repose, with a train weighing 164 tons, in the centre of the structure. The temporary deflection was found to be 25 inches, but on the removal of the weight the timber sprang back so far as to leave the deflection but 1 inch—thus, since the removal of the centerings, and throughout the entire of the experiments which have been tried, the permanent deflection of the structure has been less, than 8 inches, and the success of the design is most clearly demonstrated; in fact, there can be no doubt that the bridge would bear a pressure of 400 tons, whilst the entire weight of the ordinary trains which will pass over it, cannot, on an average, exceed about 80 tons.

CORK, BLACKROCK, AND PASSAGE RAILWAY.—An engine was run, for the first time, on this line of railway on Tuesday evening, merely to test the steadiness and solidity of the rails. The line, it is confidently stated, will be opened for general traffic on or before the last June.

SOUTH WALES RAILWAY.—The LANDORE VLADUCT.—This great under-

first time, on this line of railway on Tuesday evening, merely to test the steadiness and solidity of the rails. The line, it is confidently stated, will be opened for general traffic on or before the lst June.

SOUTH WALES RAILWAY—THE LANDORE VLADUCT.—This great undertaking is fast approaching completion. The flooring had all been laid, with the exception of that portion immediately over the River Tawe, when Mr. Brunel, the engineer-in-chief of the line, inspected the work on Saturday. Since that time this portion also has been laid. The extreme length of the viaduce is 1797 ft. 3 in. it consists of 37 spans, or trasses, the first of which, near Siloh Chapel, is about 44 ft. 3 in.; the second, 42 ft.; third, 50 ft. 10 in.; fifth, 56 ft. 11 in.; sixth, 56 ft. 3 in.; seventh, 35 ft. 9 in.; eligitht, 26 ft. 4 in.; inth, which crosses the turnpike-road, 7 aft.; tenth, crossing the canal, 73 ft. 7 in.; eleventh, 42 ft. 5 in.; twelfith, 41 ft. 9 in.; thirteenth, 41 ft. 4 in.; feurteenth, 41 ft. 1 in.; indeteenth, 62 ft.; twentleth, which crosses the river, 110 ft.; the next, 62 ft.; the twenty-second, 42 ft.; while the eight following are of the same dimensions; the thirty-first is 41 ft. 5 in.; the three last are of the respective lengths of 41 ft. 6 in., 41 ft. 10 in., and 45 ft.; iw.; the three last are of the respective lengths of 41 ft. 6 in., 41 ft. 10 in., and 45 ft.; imaking a total length of 179 ft. 3 in. The span of the centre arch over the river is 102 ft.; the height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from high water-mark to under beam, 72 ft.; to top of 7a1, 75 ft.; the total height from the bod of the river to the top 1s 109

ACCIDENTS.

Charlestonn United Mines. - Wm. Shepherd, a miner, was killed while employed landing the kibbles at the top of the shaft. The miners underground, finding that the kibbles did not come down, thought that something was wrong, and on proceeding to grass, went into the engine-house for a light, and on reaching the top of the shaft where Shepherd had been working, they found him lying on his face, and saw a quantity of blood on the ground. Assistance being procured, he was raised, but was quite dead. It appeared that he had received a blow on the nose. Mr. Tucker, surgeon, of St. Austell, was sent for, who found him quite dead. He considered that a small blood-vessel had been ruptured on the brain, which produced apoplexy, and that the highry on the nose, which was broken, was caused by his falling against a piece of from where he was working.

was caused by saming against a process that which was ascending a shaft, he fell from the lad der a depth of 15 fms., and sustained such injuries as ultimately occasioned his death. Wheat Buller.—John Martin Cooke fell from the ladder as he was proceeding to his ork, and was killed.

work, and was suited.

St. German.—Richard Thomas, engineer at Caradon Mines, who had come to setch a bob 60 one of the engines brought there by water, on lifting, it from the quay into the waggon, by some means it slipt round, and he being under, it came on him, and crushed him in such a manner as to cause his death in a short time.

him in such a manner as to cause his death in a short time.

Perils of Kinery.—A melancholy accident occurred on Friday to Edward Jones, miner, of Groesfaen, near Holywell. After he had descended a shaft of great depth, his fellow-workmen fastened a wheelbarrow to the kibble, to be lowered down after him, and unfortunately the wheel of the barrow came loose from the socket on the way, and fell on the poor fellow's head, and killed him on the spot, leaving a wife and four children to depiore their loss.—North Wales Chronicle.

the poor fellow's nead, and knied min on the spot, seaving a whe and four children to deplore their loss.—North Wales Chronicle.

Terrible Catastrophe in Algeria.—A fearful event signalised the frie of May 4, which had been fixed by MM. Barthelon and Dussand, the engineers of the hydraulic works, for the explosion of a mine in the quarries of Bab-al-Qued. It was charged with about 8000 lbs, of powder. The numbers who were on the heights at the moment of explosion may have been about 5000, attracted by the fame of a previous successful experiment. The match was lighted, and about 20 minutes passed before the two rescaptacles, one holding 5000 and the other 3000 lbs. of powder, were reached, when the 21 boxes filled with powder exploded; some minutes afterwards a detonation was heard in the interior of the most rock were thrown in the direction of the town with productions force. Persons at more than 300 yards from the quarry were struck, and the projecticle even reached the terraces of the Cabash. One universal consternation provalled, and as the spectators were divided into groups, it was not for some time that the whole extens of the evil could be appreciated. Eight persons were killed, and many dangerously wounded. Amongst those killed is M. Journalan, juge d'instruction, who was struck more than 600 yards from the apot. The festivities were, after such an event, posiponed.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

PROVINCIAL BANK OF IRELAND

The twenty-fifth annual meeting of the proprietors of this bank was held at the esta-lishment, Old Broad-street, City, on Thursday, the 16th instant.

M. ATTWOOD, Esq., moved that Oliver Farrer, Esq., take the chair, which was s by Sir ROBERT CAMPBELL, Burt.

by Sir ROBERT CAMPRELL, BATT.

The CHALEMAN said, their first duty was to re-elect the directors whose names were submitted, there being no other candidates; they were as follows:—Bonamy Dobree, jun.,
Esq.; Elliot Macnaghten, Esq.; George R. Robinson, M. P.; and Sir John Young, Bart.,
M.P.—These gentleman having been unanimonaly 10-elected, the CHALEMAN requested
the secretary (Mr. Hewat) to read the report, which was as follows:—

The CLAIRMAN sold, their first duty was to re-elect the unusuors was a summary. There being no other candidates; they were as follows:—Boamy Dobree, Jun., Esq.; Elliot Macnaghten, Esq.; George R. Robinson, M.P.; and sir John Young, Bart., M.P.—These gentleman having been unanimously ne-elected, the CLAIRMAN requested the secretary (Mr. Hewat) to read the report, which was as follows:—

The directors have unuch pleasure in again meeting the proprietors at this the twenty-fifth annual meeting of the bank, in order to submit to them the results of the business of the past year, which, though not so favourable as those heretofore produced on similar occasions, are yet such as may be considered satisfactory, when riewed in connection, with the present circumstances of Ireland.

It has been stated in previous reports, and the proprietors make be otherwise well sware that, by reason of extensive injury satisfaced by the potato crop, the agricultural produce of Ireland in the years 1816, 1847, and 1848, was greatly deficient, and large importations of foreign corn were, in consequence, required. This continuing for several successive years, has tended greatly to diminish the resources of the country, and has had a most depressing and injurious effect upon the condition of the people, rendering the business of banking more difficult and less productive than in ordinary years. Improvement, under such circumstances, must be gradual, and a roturn to more prosperous times can only be expected after a succession of favourable seasons; and it is, therefore, satisfactory to be able to state, that though the gradual produced of the product crop was large, and though it was affected by disease, this appeared at a more advanced petrol of its growth, and it comply it was affected by disease, this appeared at a more advanced petrol of its growth, and it incupit it was affected by disease, this appeared at a more advanced petrol of its provided and in the disferent districts in Ireland, they are subjected to the productive form have

The directors have now to request attention to the nonowing statement:—
he account submitted to the last general meeting in May, 1849, showed
the amount of rest, or undivided profits, at March 31, 1849, to be£110,038 16 5
rom which there has been deducted the amount of two halfyearly dividends—viz.: A t Midsummer, 1849£21,600 0
At Christmas, 1849£21,600 0—43,200 0 0

Making the rest, or amount of undivided profits, at March 30, 1850 £110,182 7. 4

The directors have only farther to announce that it is their intention to pay as usual, in July next, a dividend of 4 per cent. for the half-year ending at Midsammer, being at the rate of 8 per cent. per annum, or 11 on each share of 100L, and 8s. on each share of 10.0 of the capital stock of the bank; and they purpose also, as heretofore, to pay the property tax for the properie ors.

in July next, a division of a per cent. for the finity-year ending, it asksammer, being at the rate of 8 per cent, per annum, or 11 on each share of 100f. and 8s. on each share of 100f. the capital stock of the bank; and they purpose also, as heretofore, to pay the property tax for the proprietors.

The Chairman then said, such was the report which the directors had to lay before them of their proceedings during the past very eventful and distressing year for all commercial transactions, but more especially for banking transactions, in a country so much impoversisted by the visitations of Providence as Ireland had been for the last three or four years. That report did not show such an amount of profit as reports of former year showed; but that was not to be wondered at after the calantiles of the last free years it was to be hoped, however, that these calamities would soon cease: and that that country would soon assume the station in the world which it had hitherto maintained. (Hear, hear.) It would be improper in him to speak at length on the affairs of Ireland in the presence of so many gentieman who were better acquainted with that country; but there was one matter which he could not avoid stating—there was one fact which he could not avoid stating—there was one fact which he could not avoid stating—there was one fact which he could not avoid stating—there was one fact which he could not refain from mentioning, because it put the character of Irisi gentlemen in a position which was most creditable to their honour and humanity. There were numberless instances in which gentlemen in that country had deprived themselves of their own luxuries and comforts, rather than cease to employ, as they had always before done, the poor in their respective neighbourhoods. (Hear, hear.) Mow, be thought no statement more honourable to the character of any set of men could be made than that which he then put forth. (Hear.) With respect to Ireland itself, he could pretent to know the poor in their respect to the fact when the st

best for that country; a l hope for brighter days elves. He would conclu

he thought at present they might look forward with a cheerful hope for brighter days Ireland, and, of course a greater degree of prosperity for themselves. He would concil by again moving the resolution.

Mr. WOUVERLY ATTWOOD Seconded the motion, which was agreed to unanimously. The CHAIRAN observed, that there was one proposition which he would now subm by again moving the resolution.

Mr. WOLVERLY ATTWOOD seconded the motion, which was agreed to unanimously.

The CHAIRMAN observed, that there was one proposition which he would now sabmit, and which he was sure they would all receive with great pleasure. They were aware how greatly the board was assisted by their able officers, and by the local directors in Ireland. He would, therefore, propose "that the thanks of the proprietors be given to the local directors in Ireland, and to Mr. Murray, Mr. Hewat, and to Mr. Rawlins, their chief officers." (Applause.) In the presence of those gentleman, he would not say more than that no establishment was ever better served with more anxious, more able, and more devoted officers, than the Provincial Bank of Ireland. If there were any fault, it was only in the excess of zeal on their part to promote the interests of the bank, which frequently gave the board some apprehension as to their own health; and for this reason they continually pressed upon these officers he necessity of getting farther assistance, more particularly on Mr. Murray, who looked after the correspondence of all their branches, amounting to 28 in number. (Hear, hear.) If was a pleasure to have that gentleman's company that day, which was only caused by his coming over on the affairs of the bank; but they thought it was a relaxation for him to be absent from Dublin for a short time. He was sure that in moving such a resolution he expressed the feeling of all around that board table, and also when he stated that these gentlemen were all deserving of his best thanks of the proprietors, for the great attention they had always devoted to the interests of the state of the proprietors, for the great attention to the interests of this bank; and to the chairman, for his conduct in the chair on this occasion. He could support this resolution from his own experience, for he believed they were all deeply induced to the directors; and from the manner in which the report was received, although he was not present in tim

dend they had hitherto given the proprietors, after which they would still retain a large amount of rest. (Hear, hear.)

Mr. Starson Warner seconded the motion, which was passed unanimously.

The Cutathans, in returning thanks for himself and colleagues, sald they had now for 25 years curried on the business of this bank, and he was bound to say, that during the whole of thut period he did not believe there had ever arisen one single tople on which there had been any dissention between the proprietors and directors. (Hear, hear.) The consequence of this was, that the business had been conducted in a satisfactory manner; neither had any proposition ever emanated from the board of directors, in which the proprietors themselves were not agreed. The directors had always given their bost consideration and attention to the business of the bank, though any one might suppose they had many difficulties to encounter in carrying out their good intentions towards the establishment. He regretted the chair had not been filled by a much more worthy and benoutable man; he meant their friend, Sir Macsas Montofore, who was compelled to be absent, but who always minimizated the same deep interest in the success of the undertaking in which they were engaged; and he was sure it would have given that renteman much pleasare it he had been there, to receive a vote of thanks from so many friends. The meeting them separated.

ALEDONIAN RAILWAY COMPANY.—At an Adjourned
Meeting, numerously attended, of the Holders of the Preference Stock (£10 shares) Meeting, numerously attended, of the Holders of the Prefere aledonian Raliway Company, held pursuant to advertise on Tuesday, the 14th of May, 1850,

avern, on Tuesday, the latter stay, 1809, Capt. the Hon. EDWARD PLUNKETT, Chairman of the Company, in the chair, The report of the committee appointed at the meeting on the 7th inst., on behalf of the loiders of Preference Stock, having been submitted, the following resolutions were passed

fiolders of Preference Stock, having been submitted, the following resolutions were passed ananimously—viz.:

1. That the report of the committee, now submitted to this meeting, be received and dopted, and that a copy of the same be sent to each sharcholder.

2. That the cordial thanks of this meeting be given to the committee for their able services, and they be requested to continue those services until the proposed arrangement shall have been sanctioned by Parliament.

3. That the best thanks of the meeting be given to the chairman and directors for the cordial manner in which they have meet the committee, and to the chairman, for his contact in the chair to-day.

ARCHIBALD GIBSON, Assistant Secretary.

6, Duke-street, Westminster, May 14, 1850.

MPROVED WIRE ROPE.—The UNDERSIGNED, in tendering their best thanks for the library

INTROVED WIRE ROTES.—THE UNDERSTANDED IN tendering their best banks for the liberal support they have hitherto received, respectfully solicit attention to the vast IMPROVEMENTS which new machinery and attention has enabled them to effect in the MANUFACTURE of ANDREW SMITH'S PATENT WIRE ROPE, more particularly his FLAT ROPE, which they can now produce of a description far superior to any previously offered to the public.

WILKINS & WEATHERLY. Patent Wire Kope Works, 39, High-street, Wapping, London.

A CCIDENTAL DESCRIPTION OF THE PARTY OF THE PARTY

A CCIDENTAL DEATH INSURANCE COMPANY.

7, BANK BUILDINGS, LOTHBURY, LONDON.
(ADJOINING THE GOVERNMENT ANNUITY OFFICE, OLD JEWET).

7. BANK BUILDINGS, LOTHBURY, LONDON.
(ADJOINING THE GOVERNMENT ANULTY OFFICE, OLD JEWRY)
DIRECTORS.

KENYON S. PARKER, Req., Q.C., Lincoln's-inn, Chaleman.
George I. Raymond Barker, Eq., Daylingworth, near Cirencester.
The Lord Thomas P. Clinton, Carlton Villas, Edgware-road.
Richard Fawkes, Saq., Laurel Lodge, Barnet.
The Lord A. Kdwin Hill, M.P., Norvood-park, Southwell, Notts.
Thomas Knox Holmes, Eaq., Findyer-street, Westminster.
Hon. Richard E. Howard, Temule.
John Phillips Judd. Eaq., 6, Mark-inne.
Capt. Lowther, M.P., 1st Life Guards
Henry Blair Mayne, Eaq., 3, Chester street, Grosvenor-place.
James Mitchell, Eaq., 3e, Chancery-inne.
Charles Snell Paris, Eq., Salvador House, Bishopsgate-street.
TRUSTERS.

George Wodehouse Currie, Esq., 29, Cornhill.
Montgomery Gladstone, Eaq., Manchester.
Kenyon Stovens Parker, Q.C., Lincoln's-inn.
AUDITORS.

Thomas A. Mitchell, Esq., M.P., 9, New Broad-street.
Robert Tower, Esq., Salvador House, Bishopsgate-street.
Thomas M. Weguelin, Esq., 57, 9, 10d Broad-street.
BANKERS—Messrs. Currie and Co., 29, Cornhill.
Solictross—Messrs. Maiby and Robinson, 7, Bank-buildings.
CONSULTING ACTUARY—Edward Riley, Esq., F.R.S.A.
SEGETART—William Young.
GLASS I.—2s. 6d. to insure £100.
CLASS II.—2s. 6d. to insure £100.

CLASS I.—2s. 6d. to insure £100. CLASS II.—2s. 6d. to insure £50. CLASS III.—3s. 6d. to 10s. 6d. to insure £50

CLASS III.—3s. 6d. to 19s. 6d. to manne 2.00.

The numerous casualties in mines, collieries, &c., which, by depriving the workman of his life, plange his family hiro misery and want, have given rise to this company, whose rates are so low as to bring the benefits of insurance within the reach of the humbles classes. The directors invite the attention of the owners and lesses of mines and collieries, and others employing large bodies of men, to the principle of insuring them in the mass—in which case an abatement may be made from the above rates.

WILLIAM YOUNG, Secretary.

new Patents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

ENOUS CHAMBERS, Birmingham, smith: For improvements in the manufacture of wheels. Wheels made according to this invention are each first made up into two halves, each half consisting of one-half of the ring or fellos, one half the spokes, and one-half of the ring or fellos, one half the spokes, and one-half of the nave, all of wronghistron, and the parts of a wheel are made in the following manner:

—For each half of the nave a bock or plate of iron is forged in a cylindrical exterior frame, with a flange or prejection all round, and this flange or projection is to be drawn out by forging, so as to from projecting pieces at those parts in the circumference where the spokes are to be welded on. In the wheel shown in the drawings which accompany the specification there are eight apokes, four on each half-wheel, and in all cases this construction of wheel requires to have an oven number of spokes, half being affixed or welded to one-half of the nave, and the other half of the spokes being fixed to the other half of the nave, and the spokes being placed in such relative positions that those of the one-half all come into the spaces between those of the other half. The projection or flange being thus drawn out or forged at intervals on each half-off the nave of an intended wheel, so as to produce proper projections for the purpose of receiving the spokes; the spokes are to be welded on, each spoke laving a portion of the ring or felloe of the wheel forged thereon, the alternate portions of the felloe or ring being on the two half naves respectively; so that when the two are brought together, and the inner surfaces of the two half naves are to be brought to a welling heat, and being placed one on the other, in the position above described, are to be welded together, they will form the wheel. The two half naves are to be brought to a welling heat, and being placed one on the other, in the position above described, are to be welded together, the spokes and parts of the foll

posed.

Framerick Octavius Palmes, gentleman, Great Sution-street, Middlesex: For certain improvements in the manufacture of tandles, and also in the machinery for the manufacture of such matters. The patentee describes and claims—1. Making helical wicks for candles, consisting of a number of strands bound together by cross-gymping, or otherwise, with one of the strands of harder and stiffer substance than the others, in order to support and maintain them in position—2. Making coiled wicks of cotton cord twisted hard and firm, and gymped or bound together.—3. Plating candle wicks on a wire, which is afterwards withdrawn, in order to leave a space for the expansion of the threads, and facilitate capillary action.—4. Mctallizing one of the strands of which the candle wick is composed, by immersing it in bismuth.—5. Cross gymping the wicks by passing them once through an ordinary gymping machine, and then a second time in the reverse direction, or through this machine, which has two fiyers and bobbins added, that rotate in opposite directions round the tube through which the wick passes, and cross gymps it on both sides at the same time.

WILLIAM EDWARD NEWTON, Chancery-lane, C.E.: For improvements in machinery for dressing, shaping, cutting, and drilling, or boring rocks or stone; part of which improvements are, with certain modifications, applicable to machinery or apparatus for the continuous control of the control of the

for dressing, shaping, cutting, and driming, or convenients are, with certain modifications, applicable to machinery or apparatus not driving piles. (A communication.)

Claims.—1. The employment of cutters formed of circular metal plates mounted either singly or in sets on a shaft or spindle, such cutters being made to pass over the surface of the substance to be operated on with a rolling motion, so that it will cut away or reduce to the required form any projections thereon. Also the use of cutters, supported on a rotary stock, which act upon the surface by impact, or by striking against it.—2. A combination and arrangement of friction cylinders or drums with a treadle and a barrel, which raise the boring tool by winding the cord. [Two of the cylinders are keyed on the driving shaft, and the other two on the axle of the barrel, which may be moved up by the treadle so as to bring its cylinders into contact with the others and receive rotary motion.]—2. Peculiar arrangements, or any modification thereof, for winding up the cord, as in the preceding case, by means of a drum with a rim and wedge-shaped projection, which, at a certain point, cause the cord to ride off, and allow the boring tool to fall.—4. Any modifications of the arrangements embraced under the second and third claims for raising the monkey, or weights in pile-driving machinery.

Dent, Allcrott, and Co., Wood-street, Cheapside, the Osborne cravat. T. Lant, Birmingham, fastening for trowser-straps. J. Masters, Leicester, calesthemic or exercising belt. Pemberton and Son, Birmingham, casement fastener.—Mechanics' M

THE LARGEST ROPE EYER MADE IN SCOTLAND.—Mesars. Peter Gavin and Son, rope and sail-cleth works, Bath-street, Leith, have just completed the largest rope ever made in Scotland. The rope measures 200 fms., or 1200 ft.; it is 7 inches broad, and weighs upwards of 3 tons, and is for the Mitsell Coal Company Victoria Pit, 175 fathoms deep, near Hurlett.

A "Max" Snowball.—On Sunday last, the mail from the north was delayed nearly a full hour, in consequence of the obstruction which the train met with from snow. The carriages, on their arrival at Preston, were partially whited on their tops with snow flakes; and one of the porters at the station was enabled to collect a snowball—a curious phenomenon in May.—L'rpool Stand

BY HER MAJESTY'S ROYAL LETTERS PATENT.
IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS.

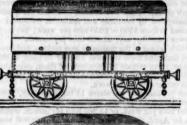
IMPORTANT TO RAILWAY COMPANIES, CARRIERS, AND OTHERS.

POWLAND BROTHERHOOD'S TILT, for COVERING RAILWAY TRUCKS, WAGGONS, &c.

This invention allows of trucks or waggons being covered or uncovered with surprising ease and facility, so that one porter can uncover two trucks in the space of a minute, and two can re-cover both in the same time. It allows of a small portion, or the whole area of the truck, being uncovered, and affords great facility for loading and unloading, and protecting the goods in these operations, as well as in the course of transit. It can be secured by locks and keys, thus rendering merchandise secure from plunder. It is cheap in its construction, can be applied to railway trucks and waggons generally, and is easily attached or detached. It runs smoothly through the air at high speeds, and against head winds.

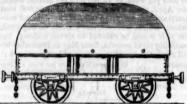
This Tilt has been in use on different parts of the broad guage during the winter, and has been found to work remarkably well in the severest weather. Experienced and practical persons, who have the management of large goods stations, and have seen those tilts in working, and who know the greats wear and tear of cloths, targauling, &c., and the inconvenience of existing modes for goods' covering, are of opinion that these Tilts will be of great utility in railway service. The patentee is himself prepared either to construct or, on moderate terms, to license parties to construct his patent Tilts.

Applications to be addressed to R. Brotherhood, Railway-Works, Chippenham, Wills.



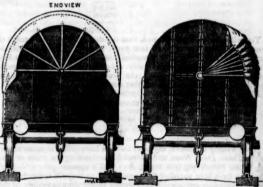
This shows the side ele vation of a waggon, with the tilt closed and fas-

tened down.



applied to a box, waggon.

or long-sided truck, with longitudinal bearers.



No. 3.

This is an end elevation of the same on a larger scale, showing the pin and fan which supports and carries over the longitudinal bearers to which the cloth is attached, and pleasures to which the cloth is attached, and pleasures, affording means of proceed which when open liescompactly folded along the side of the truck, leaving the whole area to the truck open for receiving or discharging its contents by crane or otherwise.

The tilt is applied to box, or low-sided trucks, with curved longitudinal bearers.

INDURATED AND IMPERVIOUS STONE, CHALK, &c —AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (undand Foreign Patents) the great demand for HUTCHISONISED MATERIALS. grantic, impervious to moisture, vernin, &c.; the cheapest and most durable buildings, hydraulic, paving, monumental and decorative work.—The profits at

140, Strand, London; or Tunbridge Wells, Kent, and Caen, Normandy, stating nat address, and capital at command.

N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, vermin, a LICENCES GRANTED.

DATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES AND CLOCKS.

E. J. DENT, 82, Strand; 33, Cockapur-struct; 34, Royal Exchange (clock tower area),
Watch and Clock Maker, BY APPOINTMENT; to the Queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the masufacture of ins chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842, Silver layer watches, jewelled in four holes, 6 gs. cach; in gold cases, from
£8 to £10 extra. Gold horizontal watches, with gold disls, from 8 gs. to 12 gs. cach.

DENTS, PATENT DIPLICEDGCOPE

DENT'S PATENT DIPLIEDOSCOPE, or Meridian Instrument, is now ready for delivery.—Pamphlets containing a dual directions for its use its, each, but to eastomers gratis.

THE PATENT OFFICE AND DESIGNS REGISTRY.

No. 210, STRAND, LONDON.

INVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

Mesers, F. W. CAMPIN and CO. offer their services, and the benefit of many year
experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with de
regard to validity, economy, and dispatch—assisted by scientific men of repute.

Also, in MECHANICAL and ENGINEERING DIRAWINGS, whether connected will
Patents, Railways, or otherwise, by a staff of first-rate draftsmen.

Application personally, or by lotter, to F. W. Campin and Co., No. 210, Strand (colner of Essex-street).

BY HER MAJESTY'S ROYAL LETTERS PATENT.

MASTERS & CO., ORIGINAL INVENTORS and SOLE PATENTEES of the following SCIENTIFIC and USEFUL INVENTIONS, beto call the attention of the Nobility and Gentry to their latest discovery in the preparation of SODA WATER, &c. &c., by though

By the aid of which Soda Water, and all aerated waters, can be made and fully charged with carbonic acid gas in a few minutes, and the flattest Beer or Wine can be made by brilliantly sparking as Champagne in an equally abort time, and the expense mere per hing.—Price of machine, 30s. and upwards, which needs only be seen to be appreciated Adapted for shippers to every climate. Also,

MASTERS' PATENT ICE SAFE,
For preserving Provisions Cool in the hottest weather in summer.

For preserving Provisions Cool in the hottest weather in summer.

MASTERS' PATENT FREEZING MACHINE,
For making Dessert Ices, Freezing Spring Water, and Cooling Wine at the same time
with or without ice. The largest size is suitable for confectioners, and will make free
50 to 100 quarts of Dessert Ice in a low minutes.

MASTERS' PATENT SHERRY COBBLER FREEZING AND COOLING JUG,
For producing Pure Ice from Spring Water, on your own table, in five minutes, without
the aid of ice, by his Freezing Mixture, which will produce ice in one minute in the
hottest climate.

every description of APPARATUS for PRODUCING ICE ARTIFICIALLY.

Also, by Boyal Letters Patent,
MASTERS & CO.'S PATENT ROTARY BUFF KNIFE-CLEANING MACHINE,
£2 2s. and upwards,
Which will clean and polish, equal to new, 12 knives in one minute, without noise or dust
Descriptive particulars and engravings, with upwards of 700 testimonials, forwards
on application to MASTERS & CO., 330, Oxford-street, Regent-circus, and his Depot ad
Joining the Polytechnic; also, at 7, Mansion-house-place, City.

THE TEETH-DENTAL SURGERY.-Mr. GAVIN, SUR

London: Printed by Richard Middleton, and published by Henry English (the printers), at their offices, No. 26, Flery-street, where all communications are to quested to be addressed.

[May 18, 1890.]